CDX-F5710/F5710X

SERVICE MANUAL

Ver. 1.0 2004.12

US Model
Canadian Model
CDX-F5710
E Model
CDX-F5710X

Photo: CDX-F5710

• The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US MODEL)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

Model Name Using Similar Mechanism	CDX-F5510/F5510X/F5550EE
CD Drive Mechanism Type	MG-611TA-186//K
Optical Pick-up Name	KSS1000E

SPECIFICATIONS

CD player section

Signal-to-noise ratio	120 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	CDX-F5710: 87.5 – 107.9 MHz CDX-F5710X: 87.5 – 108 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
FM tuning interval (CDX-F5710X)	50 kHz/200 kHz switchable
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM

Tuning range	CDX-F5710: 530 – 1,710 kHz CDX-F5710X: 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
AM tuning interval (CDX-F5710X)	9 kHz/10 kHz switchable
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	52 W × 4 (at 4 ohms)

General

Outputs	Audio outputs terminal (front/rear) Subwoofer output terminal (mono) Power antenna relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Illumination control terminal BUS control input terminal BUS audio input/AUX IN terminal Remote controller input terminal Antenna input terminal

– Continued on next page –

FM/AM COMPACT DISC PLAYER

9-879-332-01
2004L04-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY

Tone controls	CDX-F5710: Bass: ±10 dB at 62 Hz Treble: ±10 dB at 16 kHz CDX-F5710X: Bass: ±8 dB at 100 Hz Treble: ±8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 177 mm (7 1/8 × 2 × 7 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (7 1/4 × 2 1/8 × 6 3/8 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 10 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Card remote commander RM-X153 (CDX-F5710) Card remote commander RM-X157 (CDX-F5710X)

US and foreign patents licensed from Dolby Laboratories.

Note

This unit cannot be connected to a digital preamplifier or an equalizer which is Sony BUS system compatible.

Design and specifications are subject to change without notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TEST DISCS

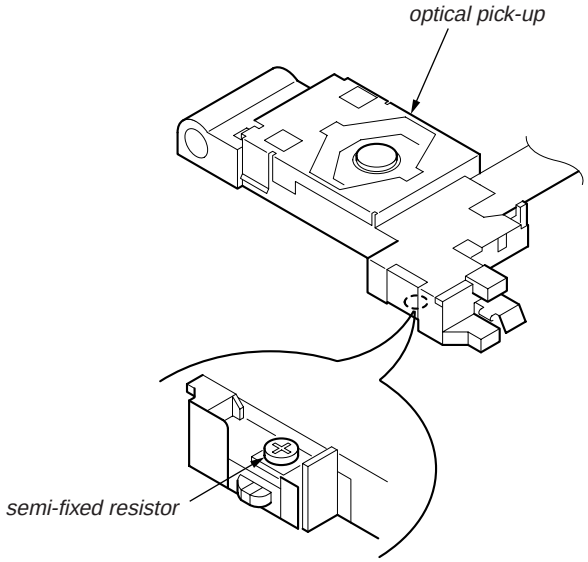
This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



• CDX-F5710X model

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

• CD Playback:
You can play CD-DA (also containing CD TEXT*[1]), CD-R/CD-RW (MP3 files also containing Multi Session and ATRAC CD (ATRAC3 and ATRAC3plus format).

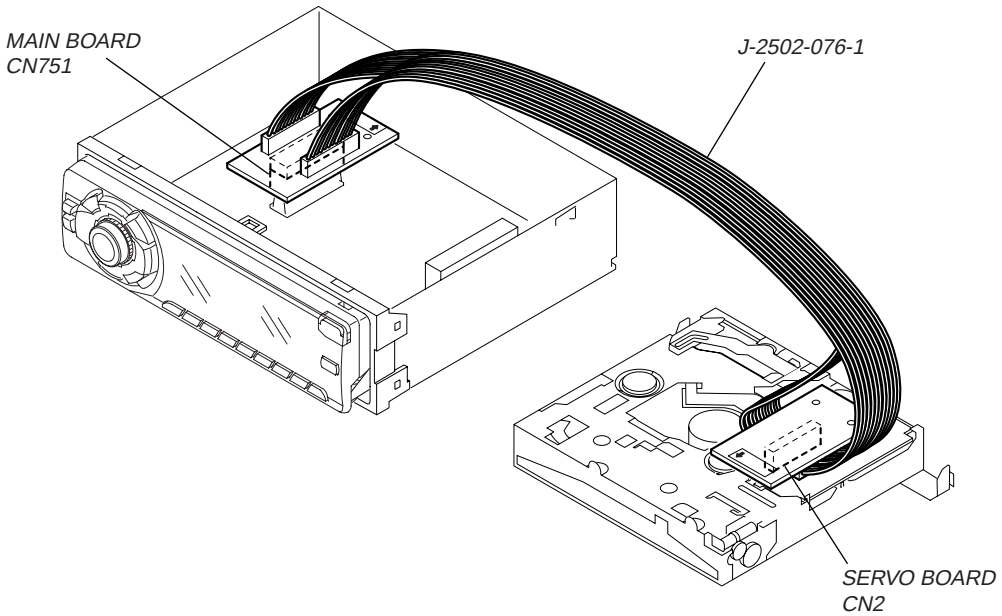
Type of discs	Label on the disc
CD-DA	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 ATRAC CD	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

*1 A CD TEXT disc is a CD-DA that includes information such as disc, artist and track name.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

• Connect the MAIN board (CN751) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

• Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

• Strong viscosity
Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

• Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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SECTION 1
GENERAL

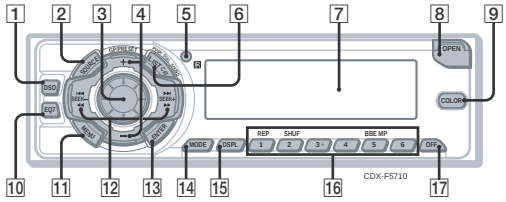
This section is extracted from instruction manual.

• LOCATION OF CONTROL

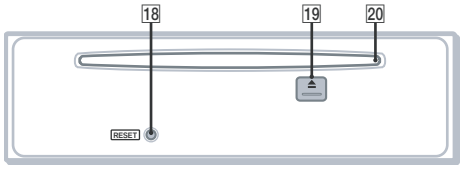
• CDX-F5710

Location of controls and basic operations

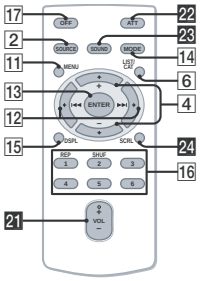
Main unit



Front panel removed



Card remote commander RM-X153



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

1 **DSO button** 2
To select the DSO mode (1, 2, 3 or OFF). The larger the number, the more enhanced the effect.

2 **SOURCE button**
To power on/change the source (Radio/CD/MD*1/AUX*2).

3 **Volume control dial/SOUND button** 9
To adjust volume (rotate); select sound items (press).

4 **GP*3/PRESET +/–, ↑ (+)/↓ (–)buttons**
To select preset stations/skip groups (press); skip groups continuously (press and hold).

5 **Receptor for the card remote commander**

6 **LIST/CAT*4 button** 9, 12
To list up.

7 **Display window**

8 **OPEN button** 5
To open the front panel.

9 **COLOR button**
To select one of 7 color settings for the LCD.

10 **EQ7 (equalizer) button**
To select an equalizer type (XPLOD, VOCAL, CLUB, JAZZ, NEW AGE, ROCK, CUSTOM or OFF).

11 **MENU button**
To enter menu.

12 **SEEK –/+, ⬅ (I◀◀)/➡ (▶▶I) buttons**
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); fast-forward/reverse a track (press and hold).

13 **ENTER button**
To complete a setting.

14 **MODE button** 8, 11
To select the radio band (FM/AM)/select the unit*5.

15 **DSPL (display) button** 8, 10
To change display items.

16 **Number buttons**
Radio:
To receive stored stations (press); store stations (press and hold).
CD/MD*1:
(1): **REP** 8
(2): **SHUF** 8
(5): **BBE MP***6 3
To activate the BBE MP function, set "BBEMP-ON" during playback on this unit. To cancel, set "BBEMP-OFF."

17 **OFF button**
To power off/stop the source.

18 **RESET button** 4

19 **⏏ (eject) button** 5
To eject the disc.

20 **Disc slot** 5
To insert the disc.

The following buttons on the card remote commander have also different buttons/functions from the unit.

21 **VOL (volume) +/– button**
To adjust volume.

22 **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.

23 **SOUND button** 9
To select sound items.

24 **SCRL button** 8
To scroll the display item.

*1 *When an MD changer is connected.*
*2 *When an optional Sony portable device is connected.*
*3 *When an MP3/ATRAC CD is played and a changer is not connected. If the changer is connected, the operation is different, see page 12.*
*4 *When the XM tuner is connected.*
*5 *When a CD/MD changer is connected.*
*6 *The unit only.*

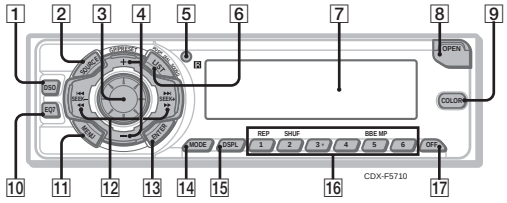
Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 14.

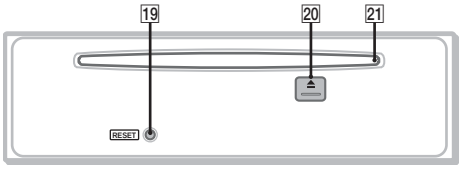
• CDX-F5710X

Location of controls and basic operations

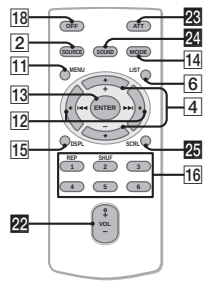
Main unit



Front panel removed



Card remote commander RM-X157



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

1 **DSO button** 2
To select the DSO mode (1, 2, 3 or OFF). The larger the number, the more enhanced the effect.

2 **SOURCE button**
To power on/change the source (Radio/CD/MD*1/AUX*2).

3 **Volume control dial/SOUND button** 9
To adjust volume (rotate); select sound items (press).

4 **GP*3/PRESET +/–, ↑ (+)/↓ (–)buttons**
To select preset stations/skip groups (press); skip groups continuously (press and hold).

5 **Receptor for the card remote commander**

6 **LIST button** 9, 12
To list up.

7 **Display window**

8 **OPEN button** 5
To open the front panel.

9 **COLOR button**
To select one of 7 colour settings for the LCD.

10 **EQ7 (equalizer) button**
To select an equalizer type (XPLOD, VOCAL, CLUB, JAZZ, NEW AGE, ROCK, CUSTOM or OFF).

11 **MENU button**
To enter menu.

12 **SEEK –/+, ⬅ (I◀◀)/➡ (▶▶I) buttons**
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); fast-forward/reverse a track (press and hold).

13 **ENTER button**
To complete a setting.

14 **MODE button** 8, 11
To select the radio band (FM/AM)/select the unit*4.

15 **DSPL (display) button** 8, 10
To change display items.

16 **Frequency select switch (located on the bottom of the unit)**
See "Frequency select switch" in the supplied installation/connections manual.

17 **Number buttons**
Radio:
To receive stored stations (press); store stations (press and hold).
CD/MD*1:
(1): **REP** 8
(2): **SHUF** 8
(5): **BBE MP***5 2
To activate the BBE MP function, set "BBEMP-ON" during playback on this unit. To cancel, set "BBEMP-OFF."

18 **OFF button**
To power off/stop the source.

19 **RESET button** 4

20 **⏏ (eject) button** 5
To eject the disc.

21 **Disc slot** 5
To insert the disc.

The following buttons on the card remote commander have also different buttons/functions from the unit.

22 **VOL (volume) +/– button**
To adjust volume.

23 **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.

24 **SOUND button**
The same as (SOUND) on the unit.

25 **SCRL button** 8
To scroll the display item.

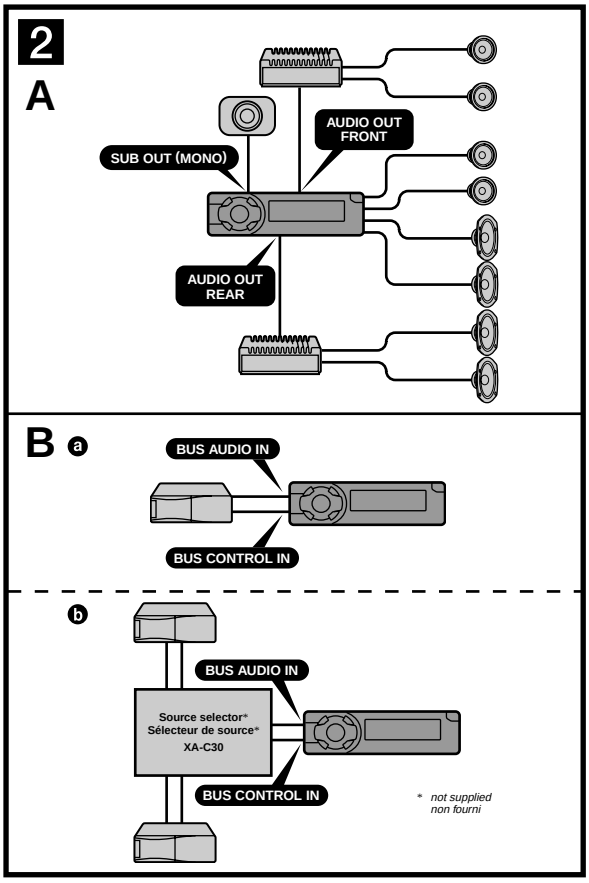
*1 *When an MD changer is connected.*
*2 *When an optional Sony portable device is connected.*
*3 *When an MP3/ATRAC CD is played and a changer is not connected. If the changer is connected, the operation is different, see page 12.*
*4 *When a CD/MD changer is connected.*
*5 *The unit only.*

Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 14.

• CONNECTIONS

• CDX-F5710



Connection example (2)

***Notes* (2-A)**
- *Be sure to connect the ground lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

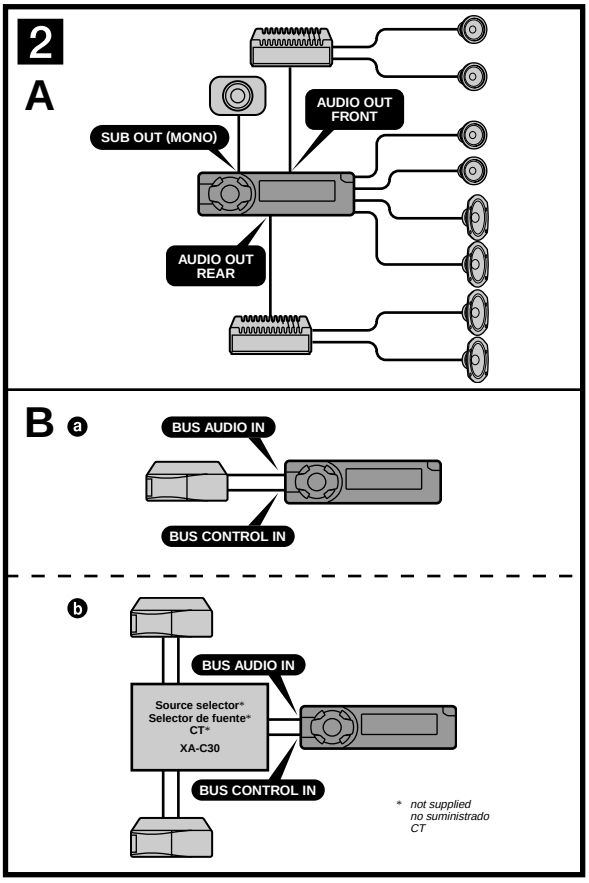
***Tip* (2-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Exemple de raccordement (2)

***Remarques* (2-A)**
- *Raccordez d'abord le câble de mise à la masse avant de raccorder l'amplificateur.*
- *L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.*

***Conseil* (2-B-b)**
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est requis.

• CDX-F5710X



Connection example (2)

***Notes* (2-A)**
- *Be sure to connect the earth lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

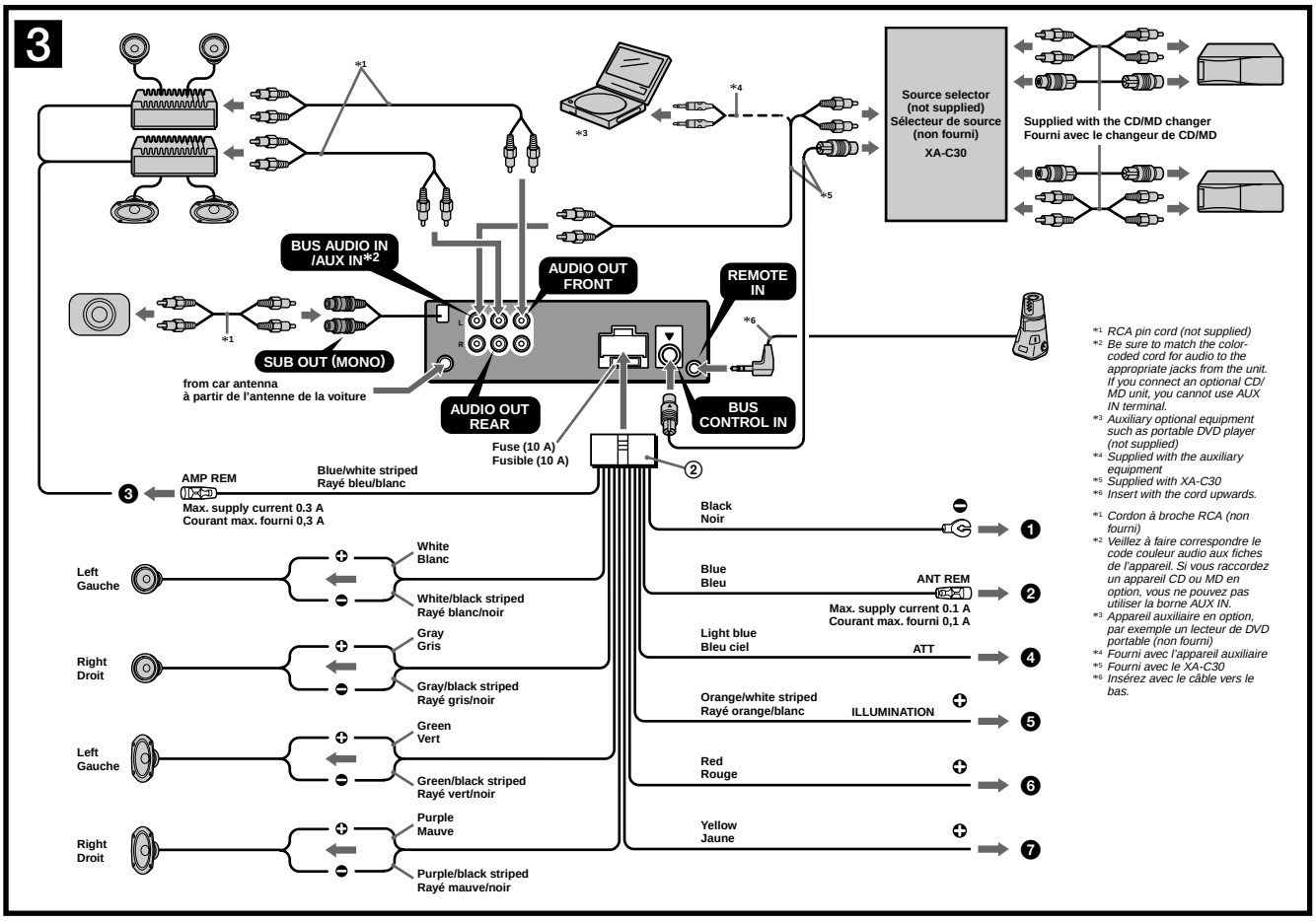
***Tip* (2-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Ejemplo de conexiones (2)

***Notas* (2-A)**
- *Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.*
- *La alarma sonará únicamente si se utiliza el amplificador incorporado.*

***Sugerencia* (2-B-b)**
Si desea conectar dos o más cambiadres de CD/MD, necesitará el selector de fuente XA-C30 (opcional).

• **CDX-F5710**



*1 RCA pin cord (not supplied)
*2 Be sure to match the color-coded cord for audio to the appropriate jacks from the unit. If you connect an optional CD/MD unit, you cannot use AUX IN terminal.
*3 Auxiliary optional equipment such as portable DVD player (not supplied)
*4 Supplied with the auxiliary equipment
*5 Supplied with XA-C30
*6 Insert with the cord upwards.

*1 Cordon à broche RCA (non fourni)
*2 Veillez à faire correspondre le code couleur audio aux fiches de l'appareil. Si vous raccordez un appareil CD ou MD en option, vous ne pouvez pas utiliser la borne AUX IN.
*3 Appareil auxiliaire en option, par exemple un lecteur de DVD portable (non fourni)
*4 Fourni avec l'appareil auxiliaire
*5 Fourni avec le XA-C30
*6 Insérez avec le câble vers le bas.

Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black ground lead, then connect the orange/white striped, yellow, and red power input leads.

❷ **To the power antenna control lead or power supply lead of antenna booster amplifier**
Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground lead to a metal surface of the car first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❼ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement (3)

❶ **À un point métallique de la voiture**
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation rayé orange/blanc, jaune, et rouge.

❷ **Vers le câble de commande d'antenne électrique ou le câble d'alimentation de l'amplificateur d'antenne**
Remarques
- *Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».*

❸ **Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option**
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

❹ **Vers le cordon de liaison d'un téléphone de voiture**

❺ **Vers le connecteur du signal d'éclairage de la voiture**
Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.

❻ **À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».*

❼ **À la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.

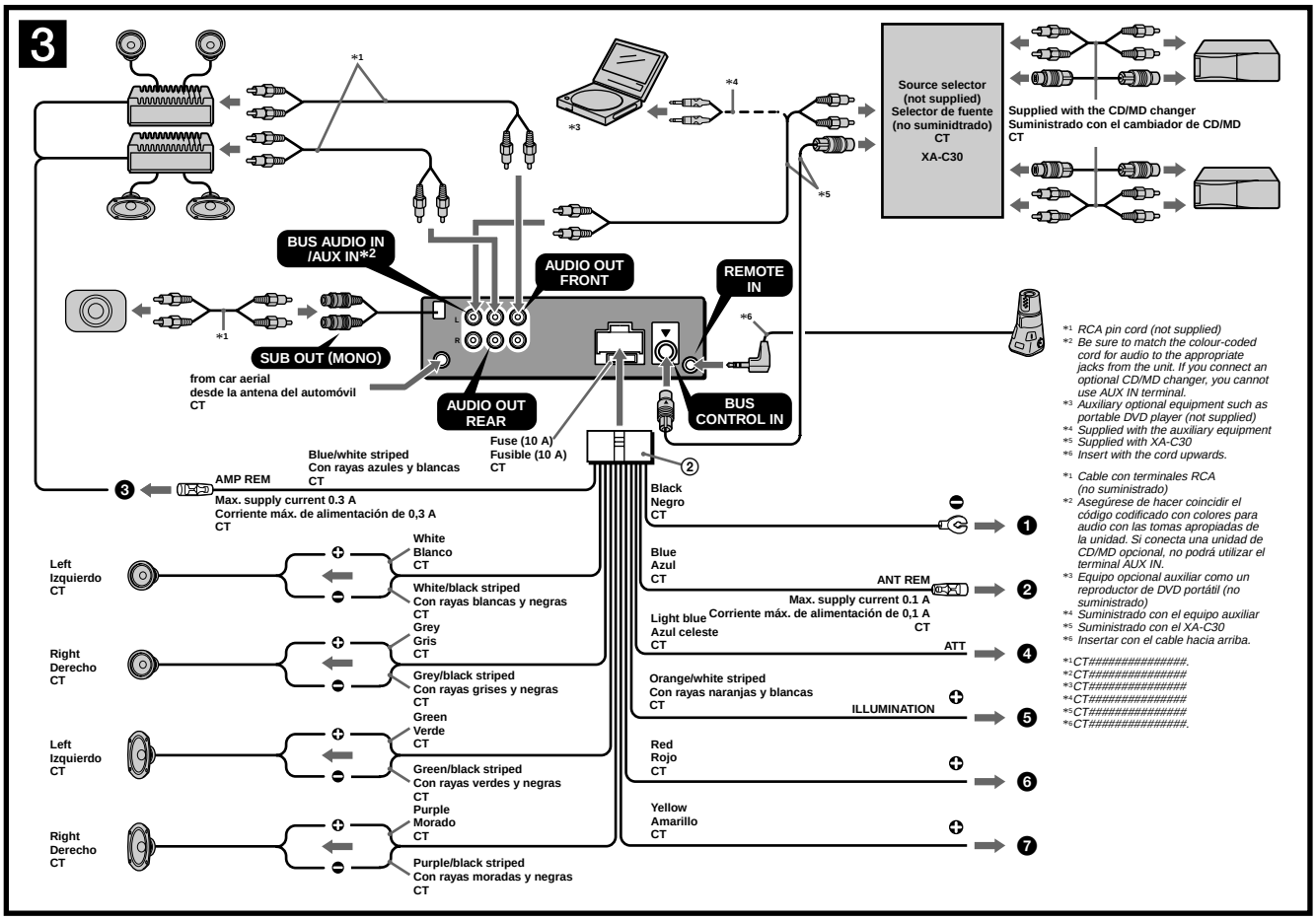
Remarques sur les c,b les de commande et d'alimentation
- *Le câble de commande d'antenne électrique (bleu) fournit une alimentation de + 12 V CC lorsque vous mettez la radio sous tension.*
- *Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne électrique (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le câble d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes des haut-parleurs droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un câble négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les haut-parleurs et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.

• **CDX-F5710X**



*1 *RCA pin cord (not supplied)*
*2 *Be sure to match the colour-coded cord for audio to the appropriate jacks from the unit. If you connect an optional CD/MD changer, you cannot use AUX IN terminal.*
*3 *Auxiliary optional equipment such as portable DVD player (not supplied)*
*4 *Supplied with the auxiliary equipment*
*5 *Supplied with XA-C30*
*6 *Insert with the cord upwards.*

*1 *Cable con terminales RCA (no suministrado)*
*2 *Asegúrese de hacer coincidir el código codificado con colores para audio con las tomas apropiadas de la unidad. Si conecta una unidad de CD/MD opcional, no podrá utilizar el terminal AUX IN.*
*3 *Equipo opcional auxiliar como un reproductor de DVD portátil (no suministrado)*
*4 *Suministrado con el equipo auxiliar*
*5 *Suministrado con el XA-C30*
*6 *Insertar con el cable hacia arriba.*

*1 *CT###############.*
*2 *CT###############*
*3 *CT###############*
*4 *CT###############*
*5 *CT###############*
*6 *CT###############.*

Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black earth lead, then connect the orange/white stripped, yellow, and red power input leads.

❷ **To the power aerial control lead or power supply lead of aerial booster amplifier**
Notes
- *It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.*
- *When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black earth lead to a metal surface of the car first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black earth lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."*

❼ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black earth lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Diagrama de conexión (3)

❶ **A una superficie metálica del automóvil**
Conecte primero el cable de conexión a masa negro, y después los cables con rayas naranjas y blancas, amarillo, y rojo de entrada de alimentación.

❷ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**
Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ **A AMP REMOTE IN de un amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❹ **Al cable de interfaz de un teléfono para automóvil**

❺ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de toma a masa negro a una superficie metálica del automóvil.

❻ **Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido**
Notas
- *Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❼ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación
- *El cable de control de la antena motorizada (azul) suministrará cc de + 12V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

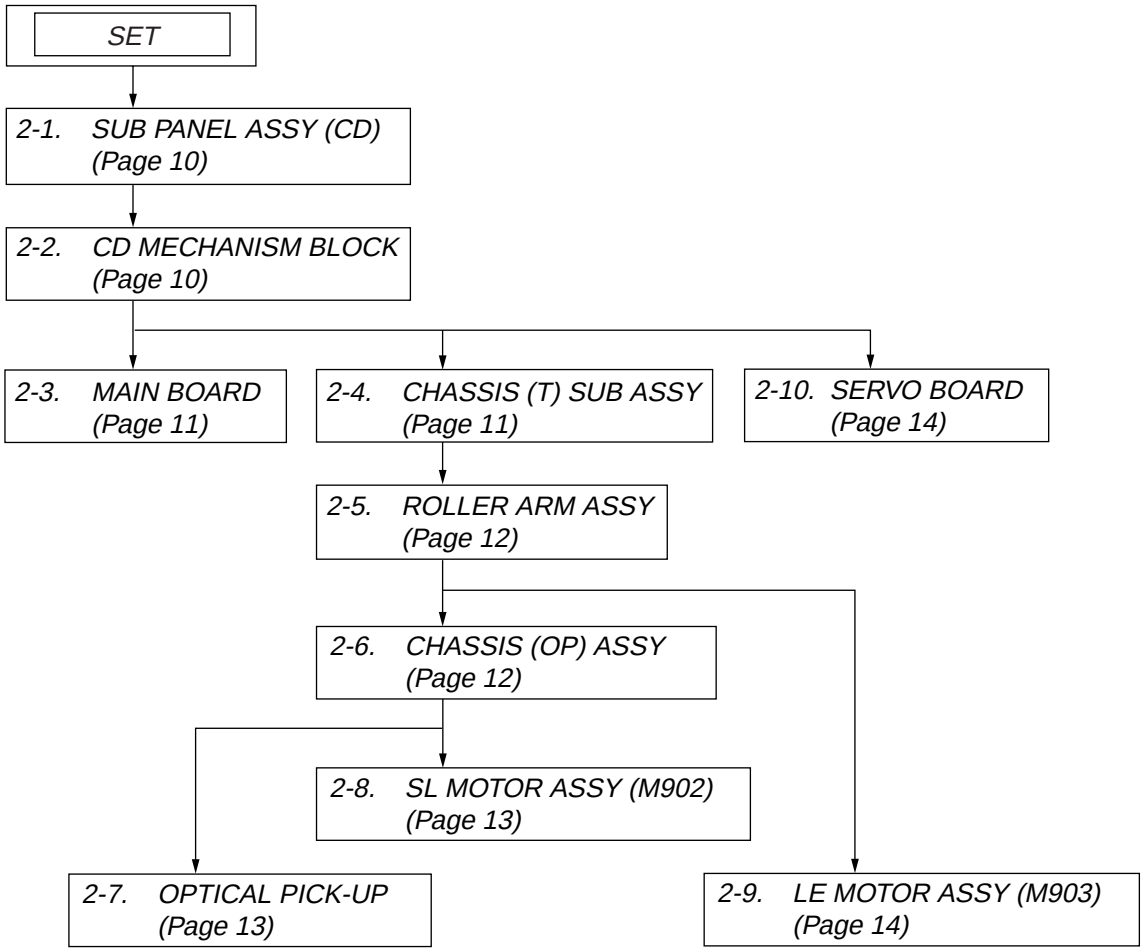
Conexión para protección de la memoria
Si conecta el cable de entrada de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague la llave de encendido.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Nota sobre la conexión
Si el altavoz y el amplificador no están conectados correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.

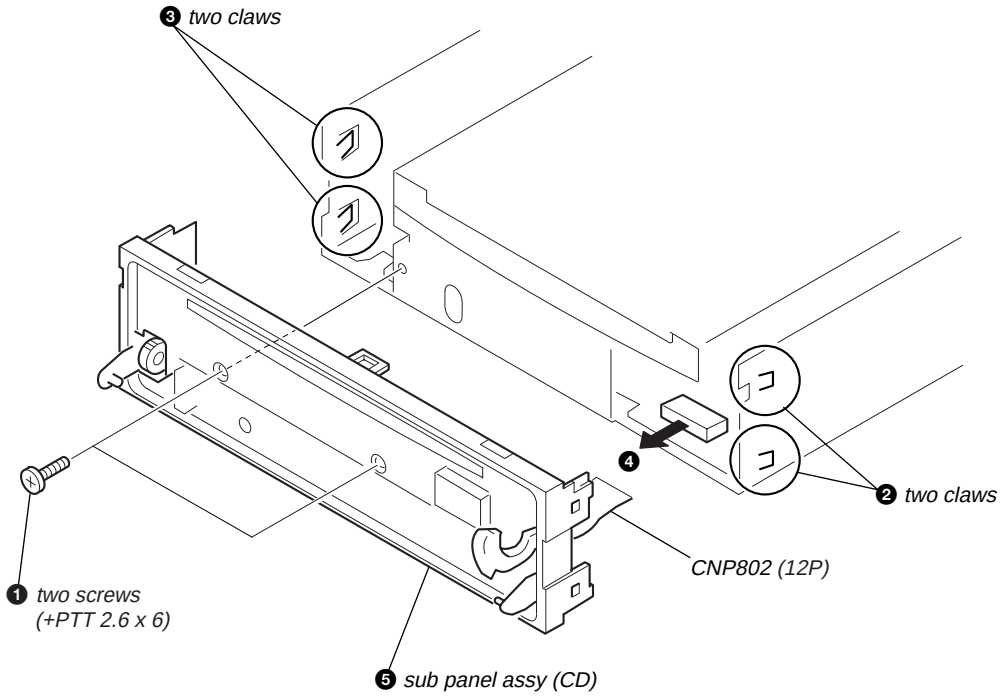
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

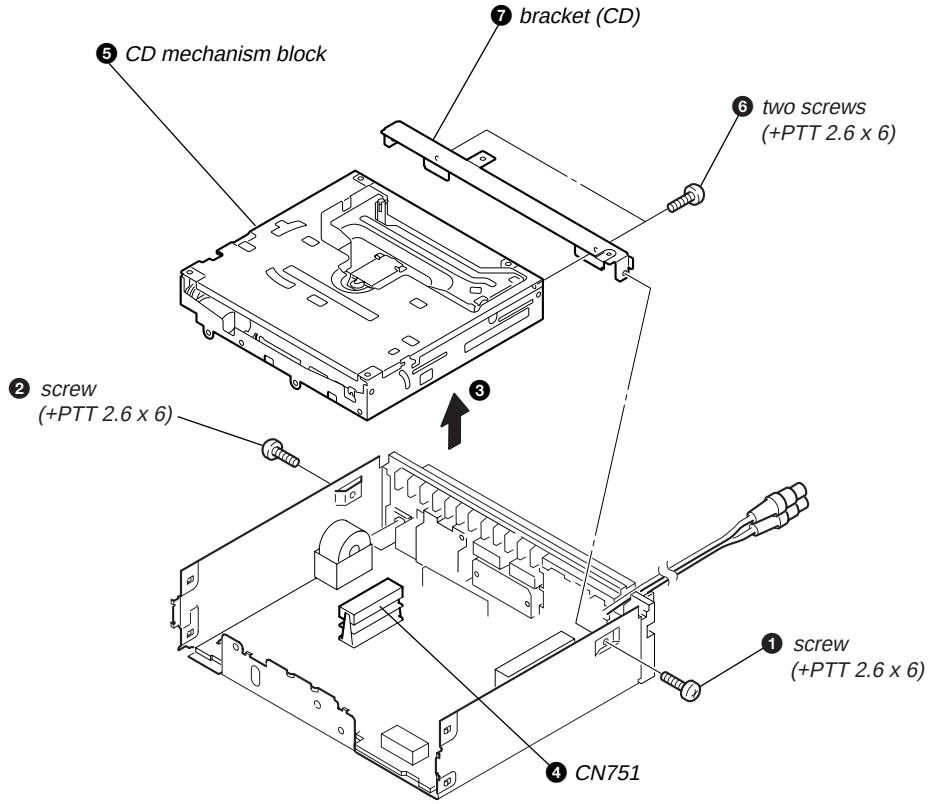

SET
2-1. SUB PANEL ASSY (CD) (Page 10)
2-2. CD MECHANISM BLOCK (Page 10)
2-3. MAIN BOARD (Page 11)
2-4. CHASSIS (T) SUB ASSY (Page 11)
2-10. SERVO BOARD (Page 14)
2-5. ROLLER ARM ASSY (Page 12)
2-6. CHASSIS (OP) ASSY (Page 12)
2-8. SL MOTOR ASSY (M902) (Page 13)
2-7. OPTICAL PICK-UP (Page 13)
2-9. LE MOTOR ASSY (M903) (Page 14)

Note : Follow the disassembly procedure in the numerical order given.

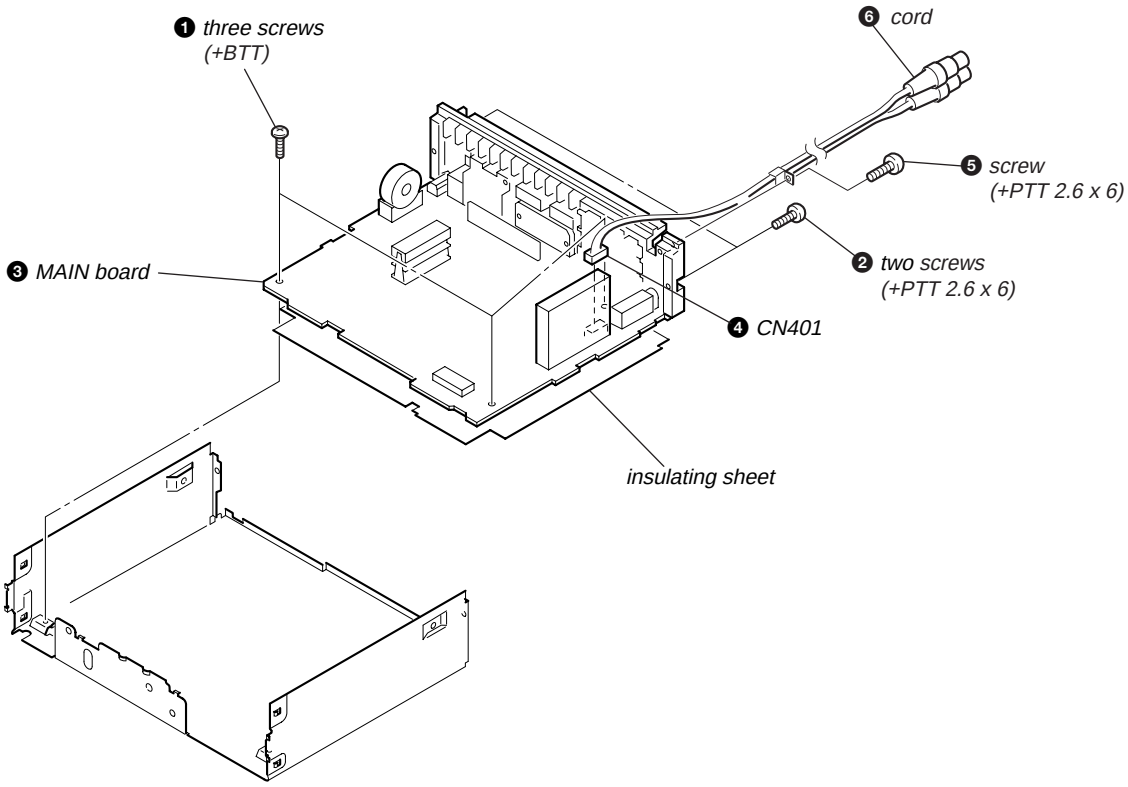
2-1. SUB PANEL ASSY (CD)



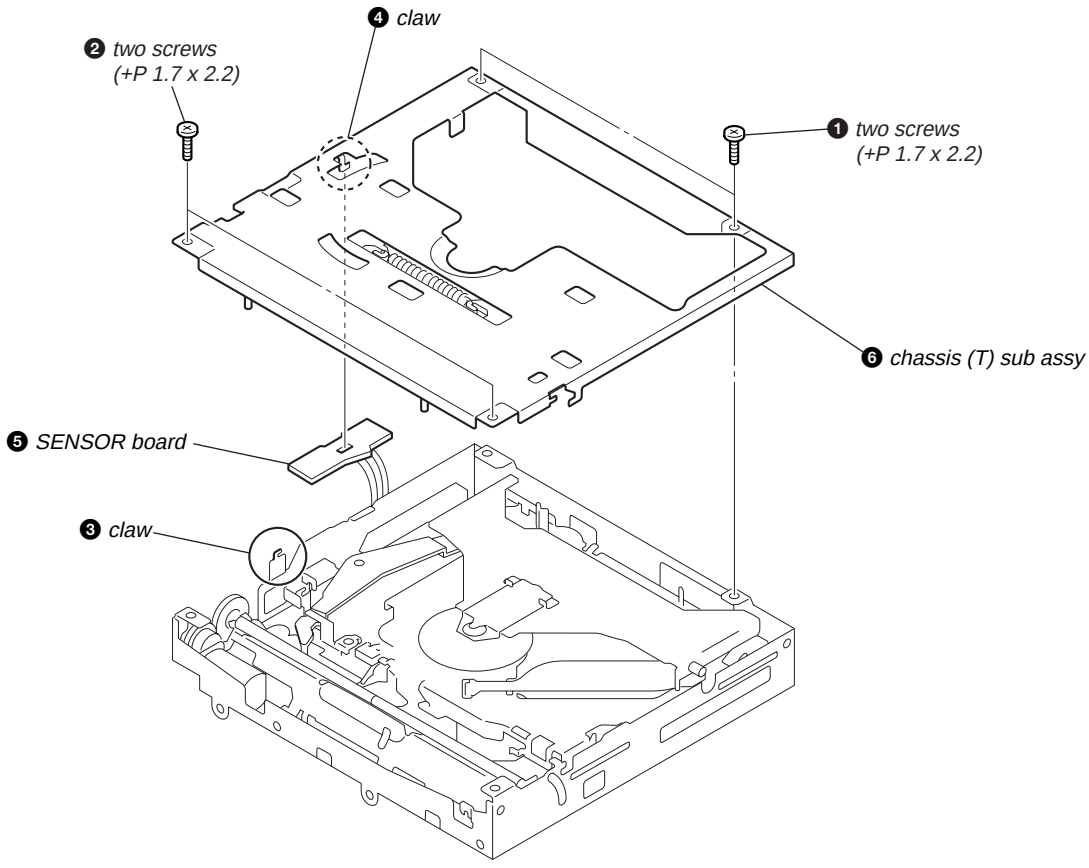
2-2. CD MECHANISM BLOCK



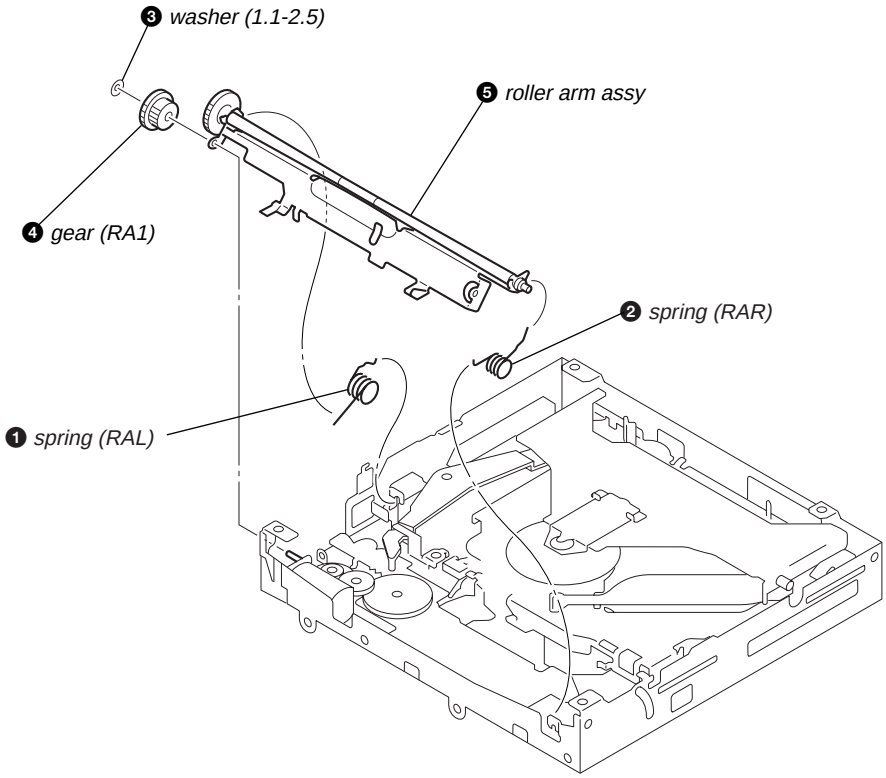
2-3. MAIN BOARD



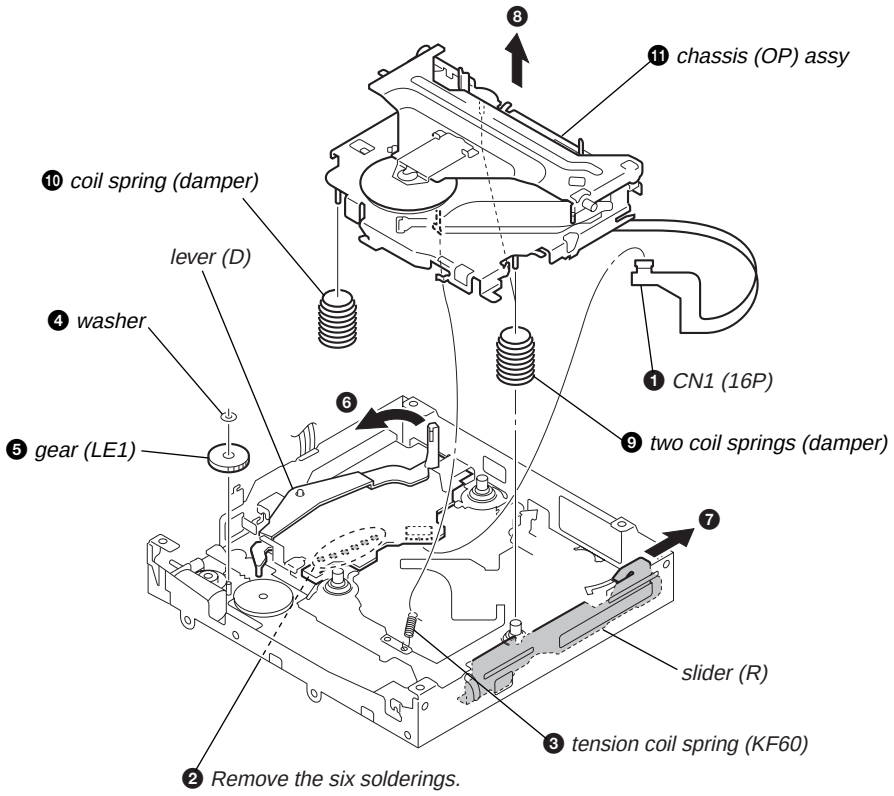
2-4. CHASSIS (T) SUB ASSY



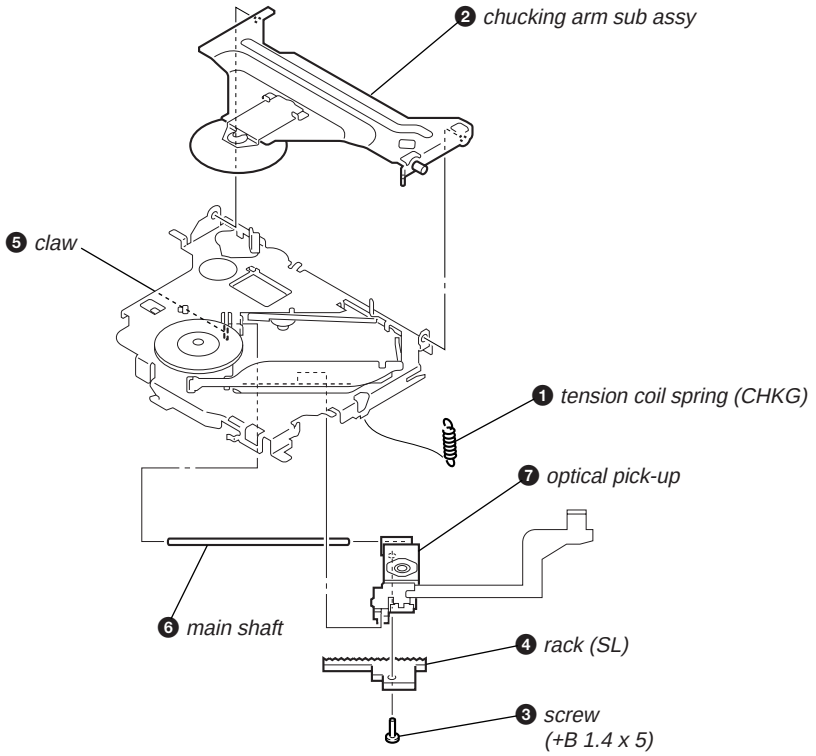
2-5. ROLLER ARM ASSY



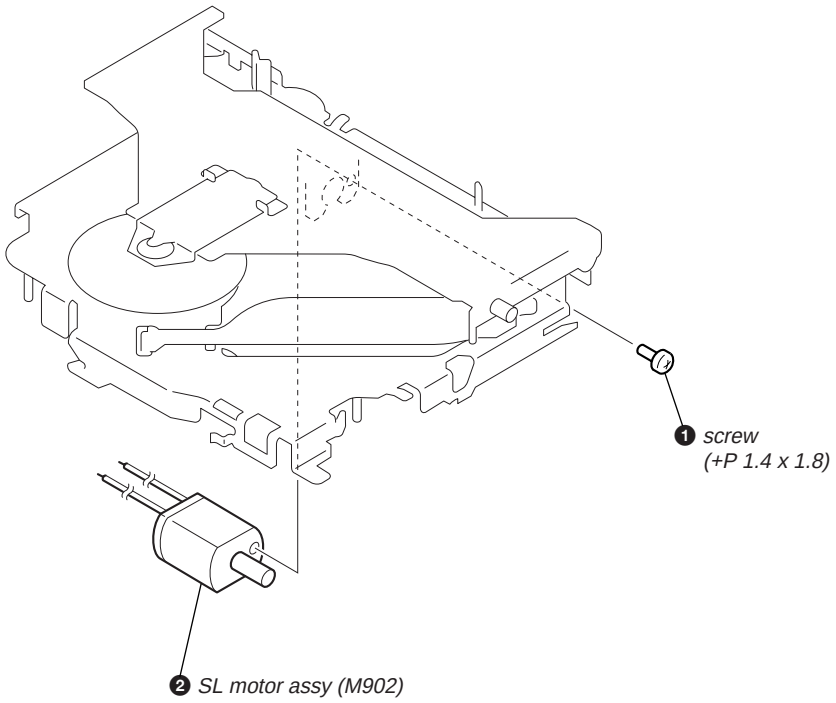
2-6. CHASSIS (OP) ASSY



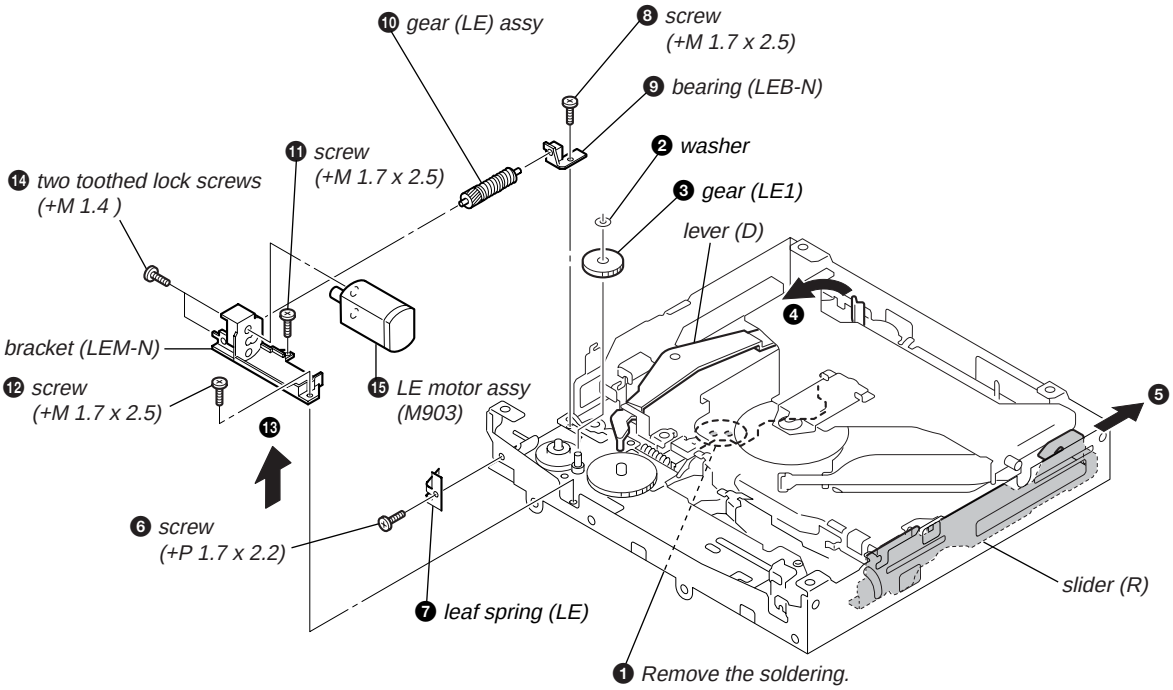
2-7. OPTICAL PICK-UP



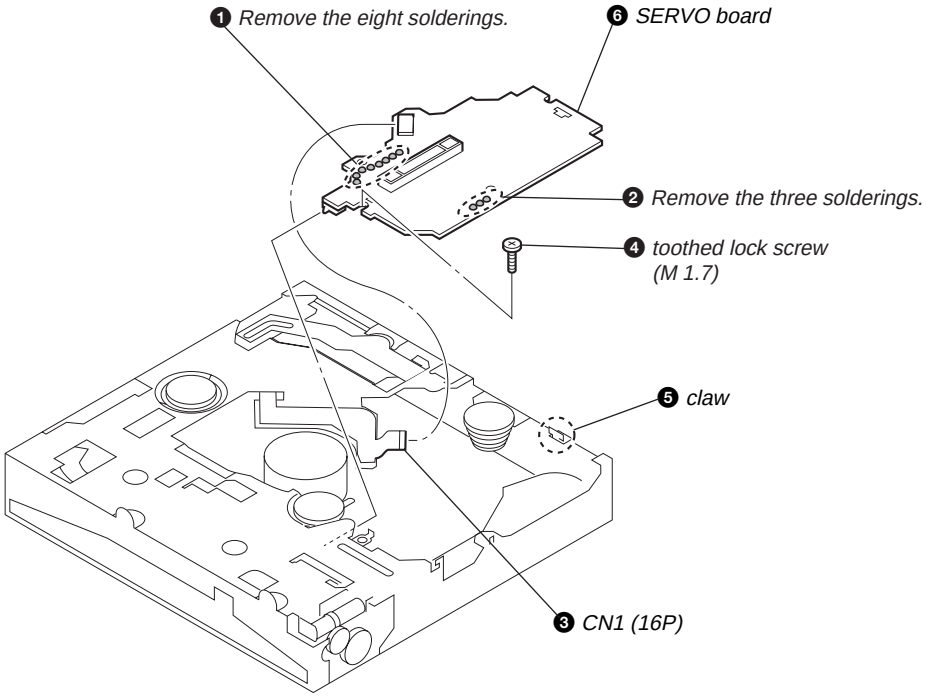
2-8. SL MOTOR ASSY (M902)



2-9. LE MOTOR ASSY (M903)

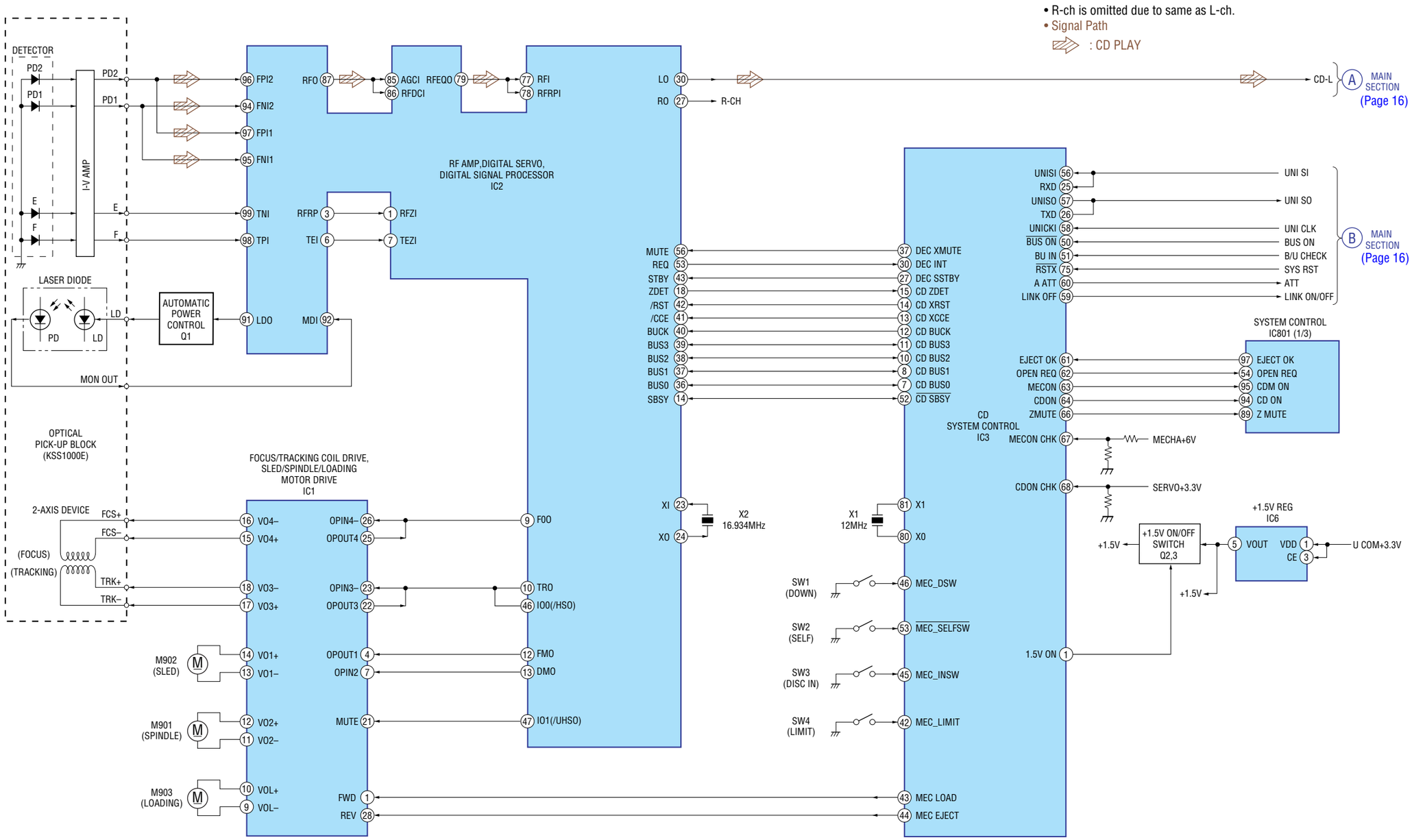


2-10. SERVO BOARD

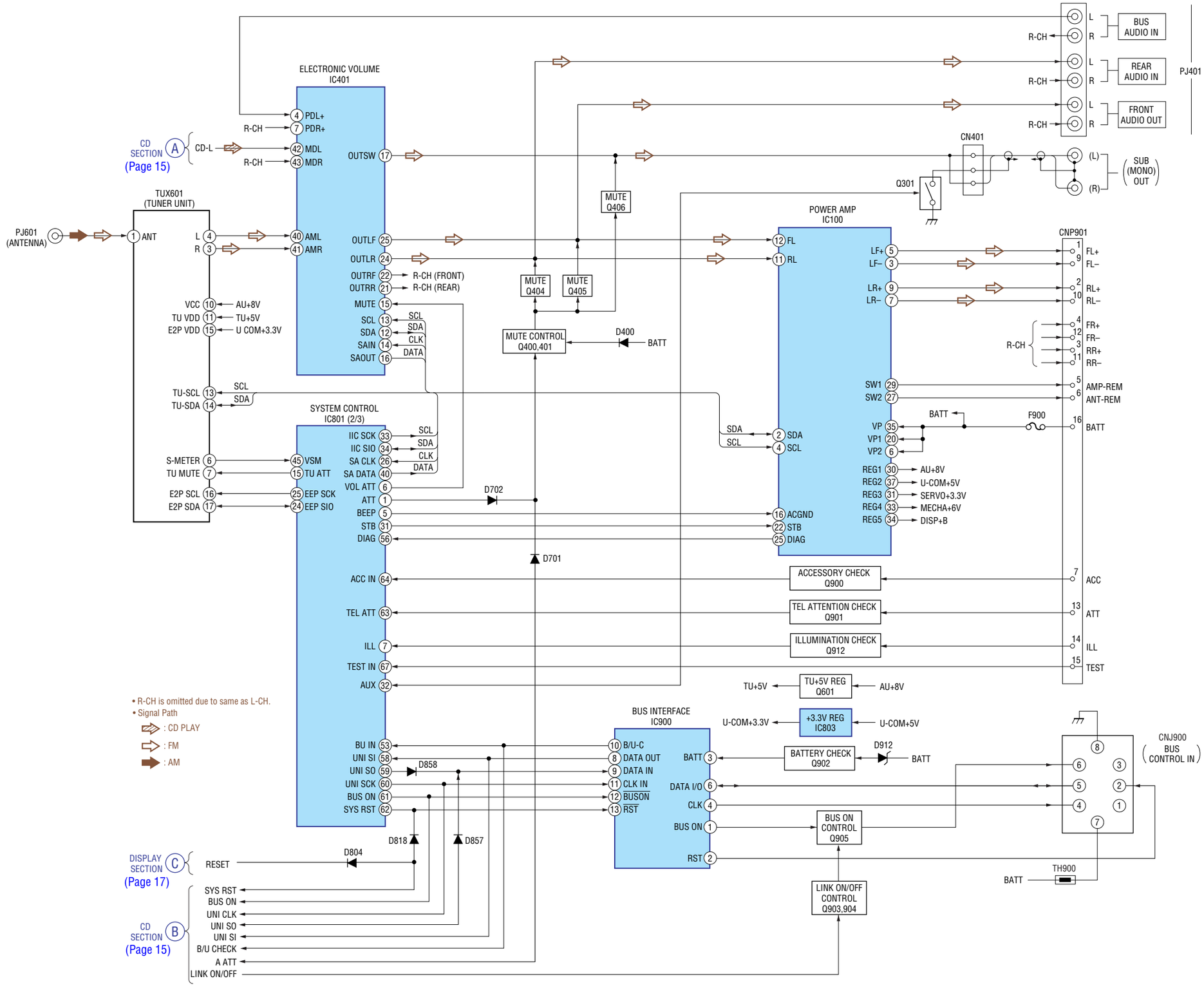


SECTION 3
DIAGRAMS

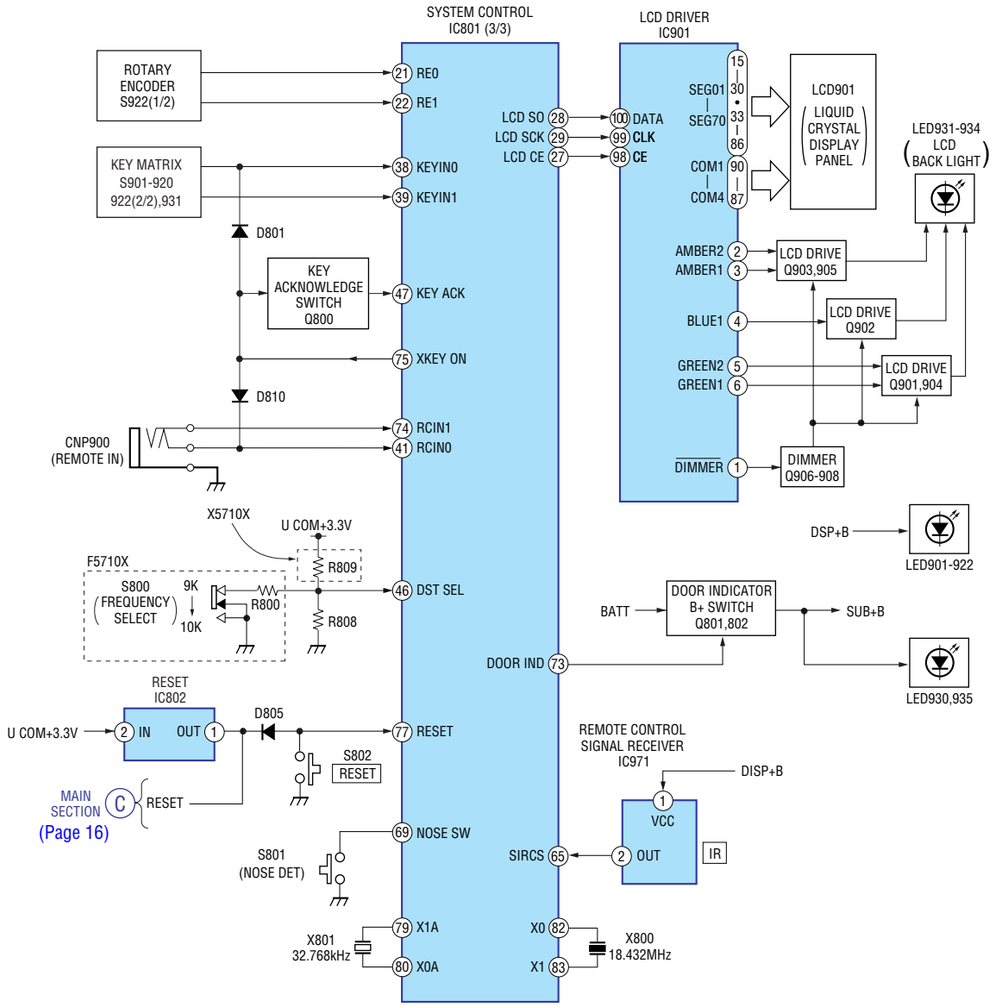
3-1. BLOCK DIAGRAM — CD SECTION —



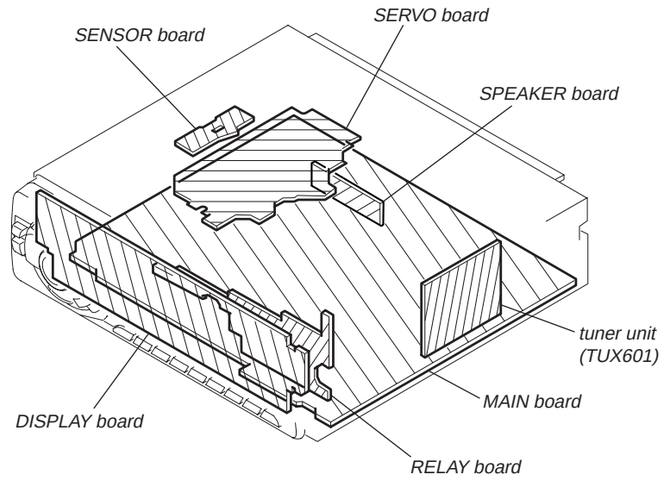
3-2. BLOCK DIAGRAM — MAIN SECTION —



3-3. BLOCK DIAGRAM — DISPLAY SECTION —



3-4. CIRCUIT BOARDS LOCATION



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- CD mechanism section (1/2), (2/2)
  no mark : CD PLAY
- Main (1/3), (2/3), (3/3) and Display sections
  no mark : FM
  ( ) : AM
  < > : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY
  ⇨ : FM
  ➡ : AM
  ⇨ : BUS AUDIO

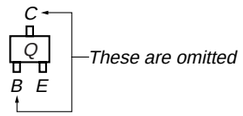
For printed wiring boards.

Note:

- o—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.



These are omitted

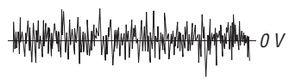
These are omitted

These are omitted

• WAVEFORMS

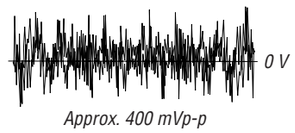
— SERVO BOARD — (CD PLAY)

① IC2 ④ (FEI)



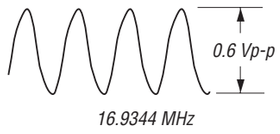
50 mV/DIV, 5 msec/DIV

② IC2 ⑥ (TEI)



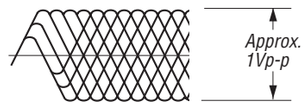
200 mV/DIV, 5 msec/DIV

③ IC2 ㉓ (XI)



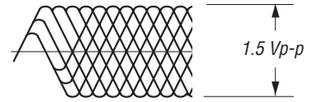
0.2 V/DIV, 0.2 µsec/DIV

④ IC2 ㊼ (RFI)



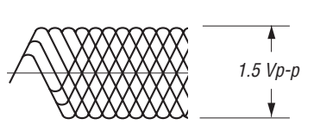
0.5 V/DIV, 0.5 µsec/DIV

⑤ IC2 ㊹ (FNI2), ㊺ (FNI1)



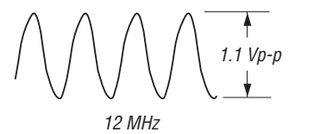
0.5 V/DIV, 0.5 µsec/DIV

⑥ IC2 ㊻ (FPI2), ㊼ (FPI1)



0.5 V/DIV, 0.5 µsec/DIV

⑦ IC3 ㉛ (X1)



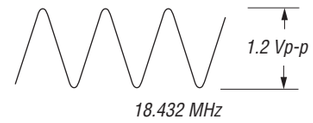
0.5 V/DIV, 0.2 µsec/DIV

— MAIN BOARD —

① IC801 ㊵ (XOA)

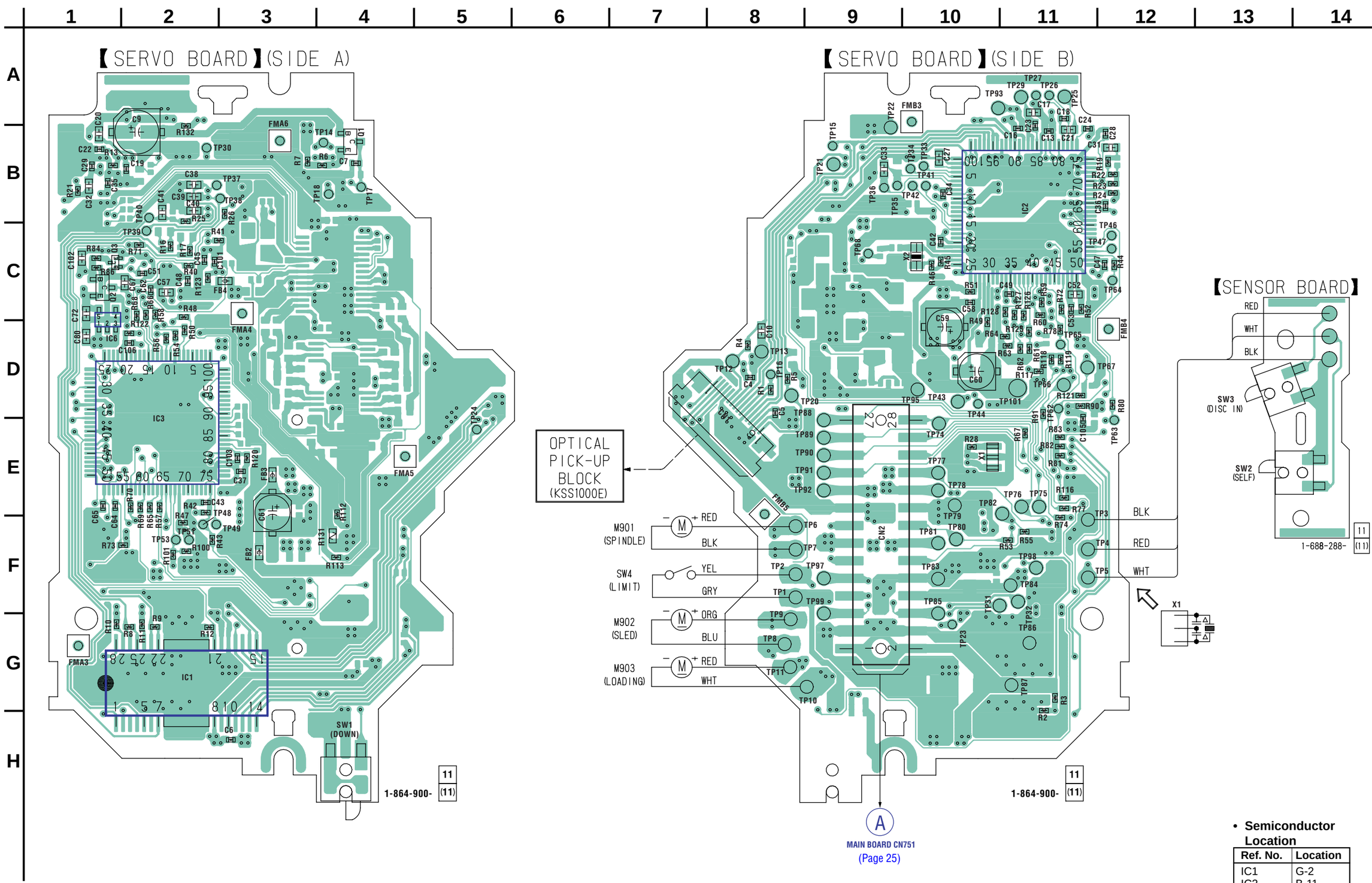
0.2 V/DIV, 20 µsec/DIV

② IC801 ㊸ (X1)



0.5 V/DIV, 0.1 µsec/DIV

3-5. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 17 for Circuit Boards Location. : Uses unleaded solder.

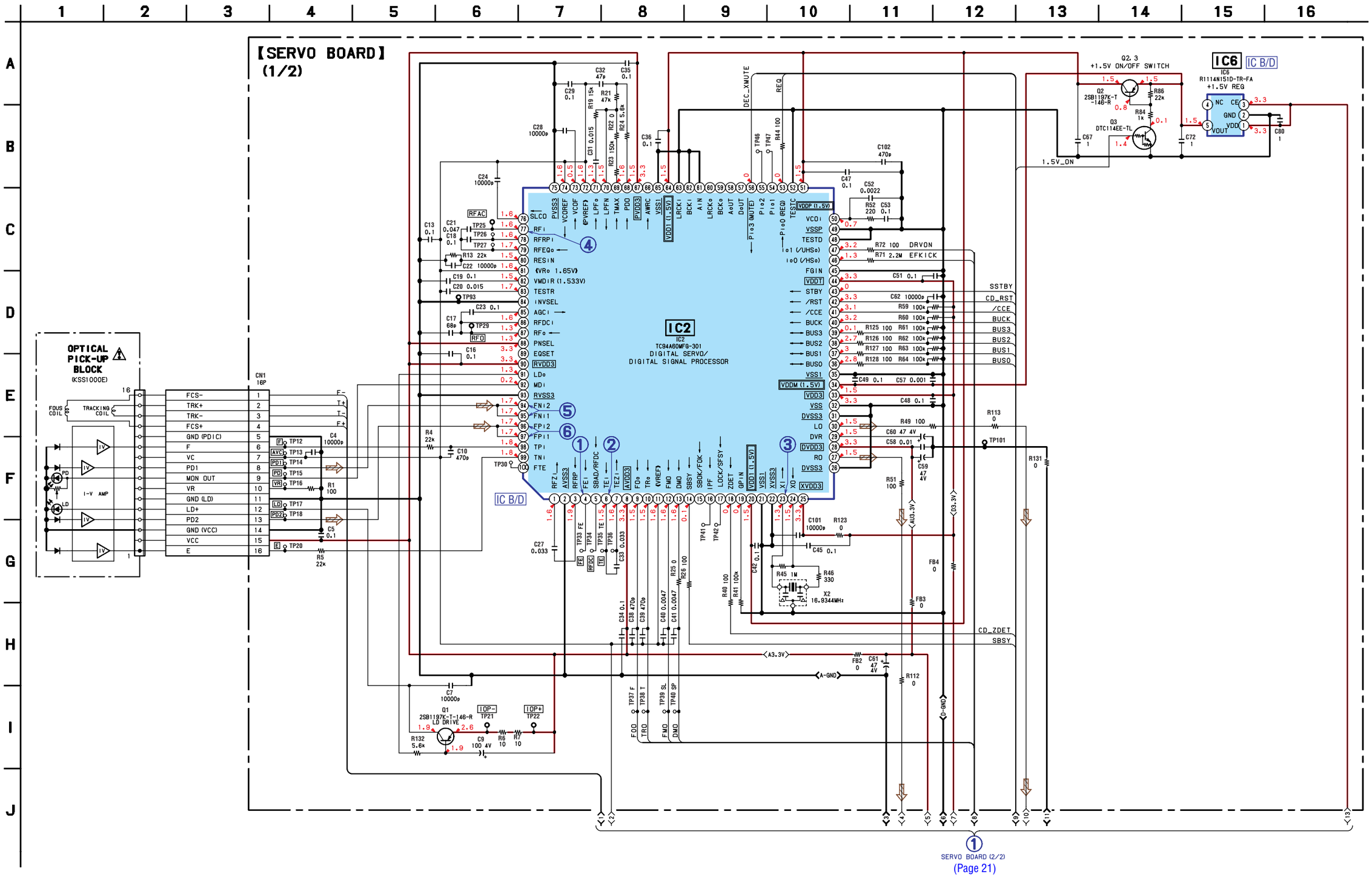


- **Semiconductor Location**

Ref. No.	Location
IC1	G-2
IC2	B-11
IC3	D-2
IC6	D-1
Q1	B-4
Q2	C-1
Q3	C-1

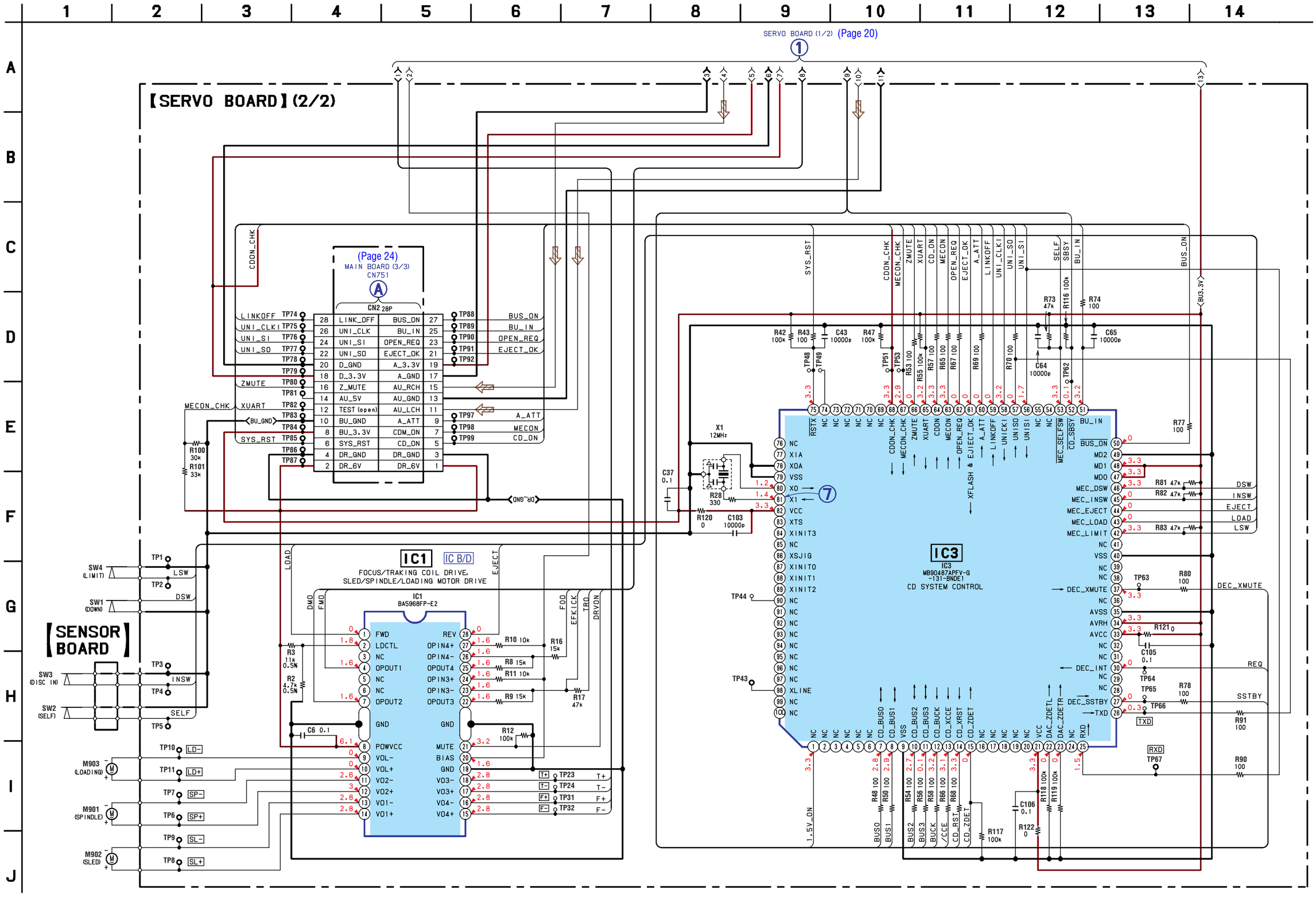
3-6. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) —

• Refer to page 18 for Waveforms.
• Refer to page 29 for IC Block Diagrams.

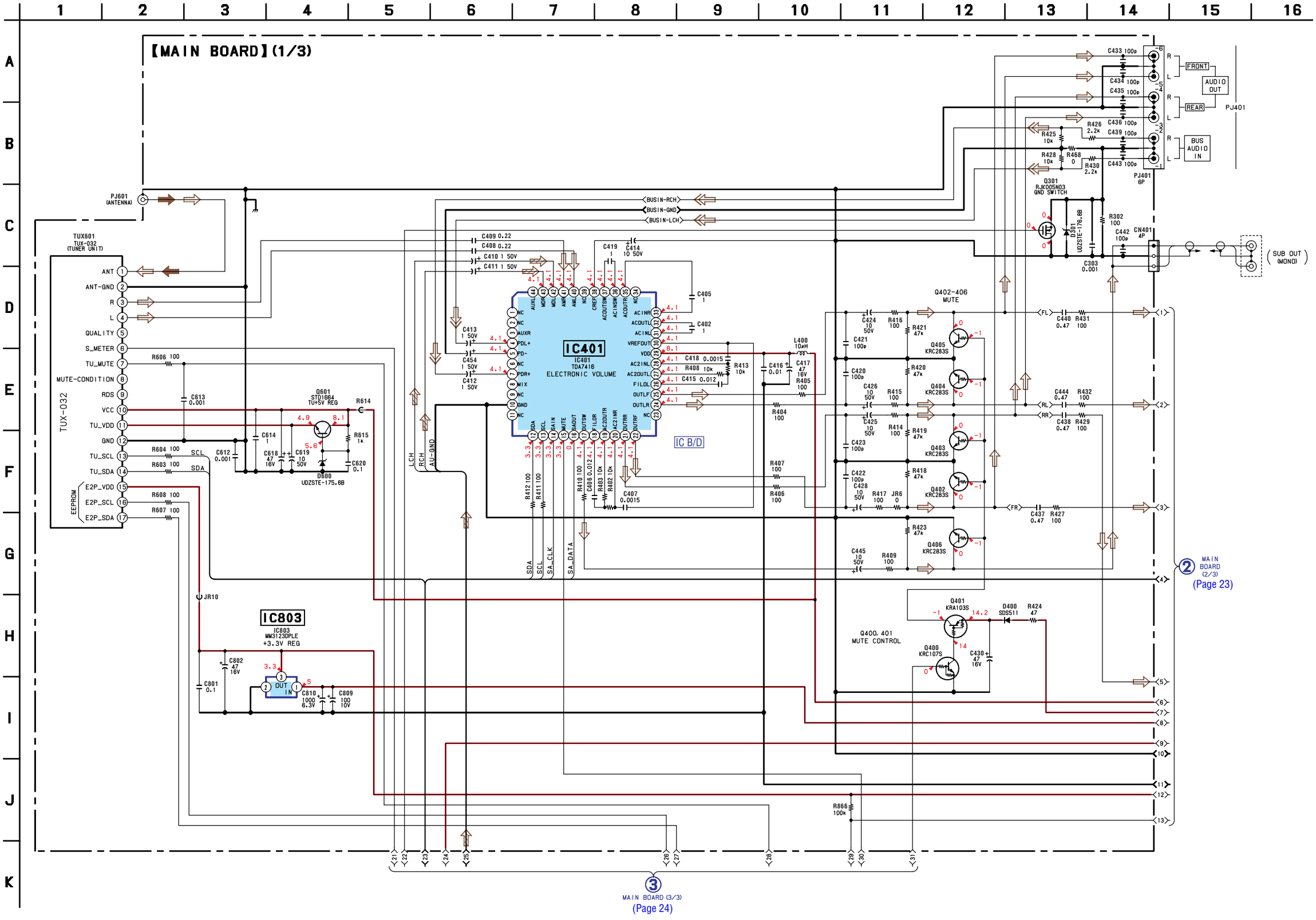


• Refer to page 18 for Waveform.
• Refer to page 30 for IC Block Diagram.
• Refer to page 32 for IC Pin Descriptions.

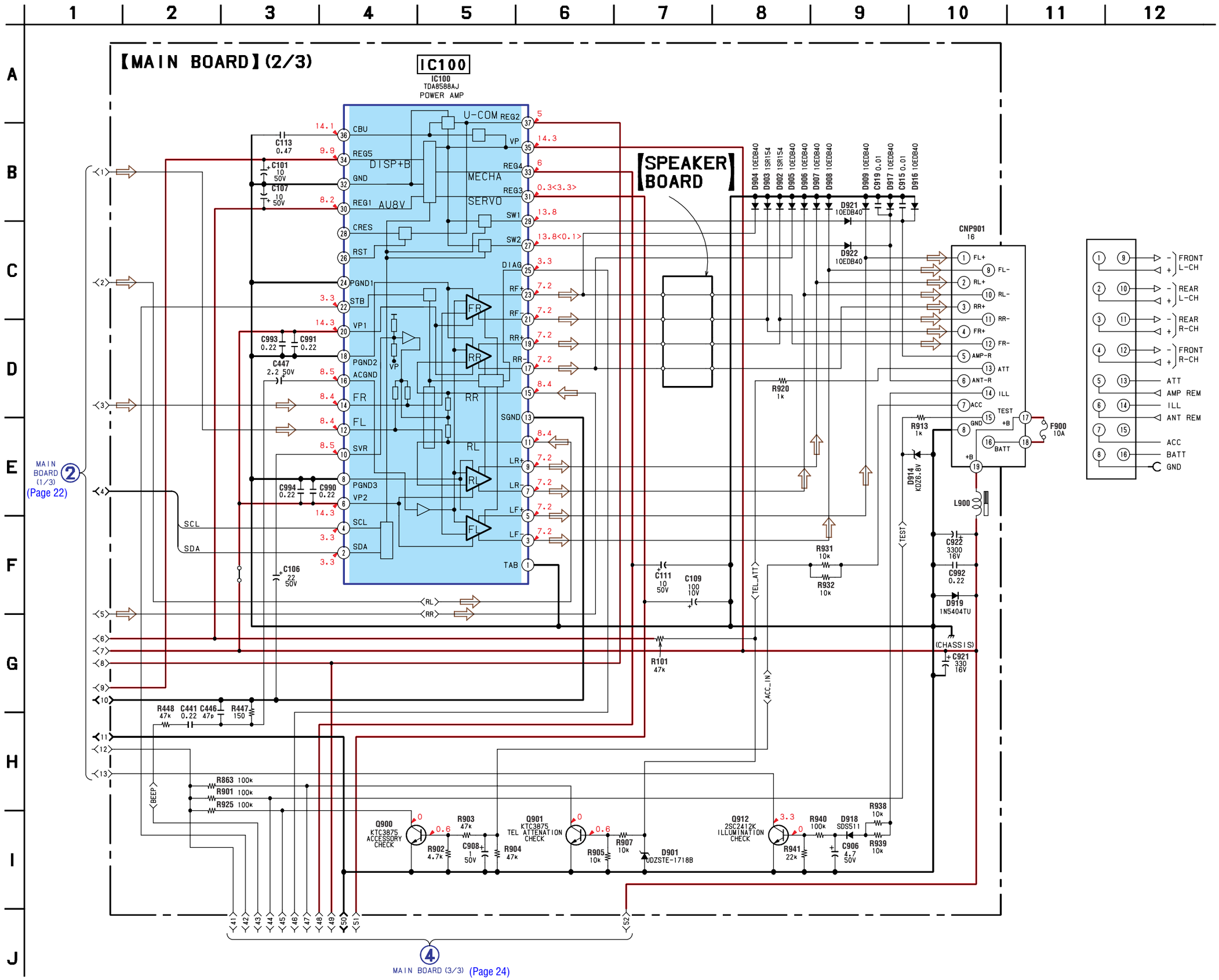
3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) —



3-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 31 for IC Block Diagram.

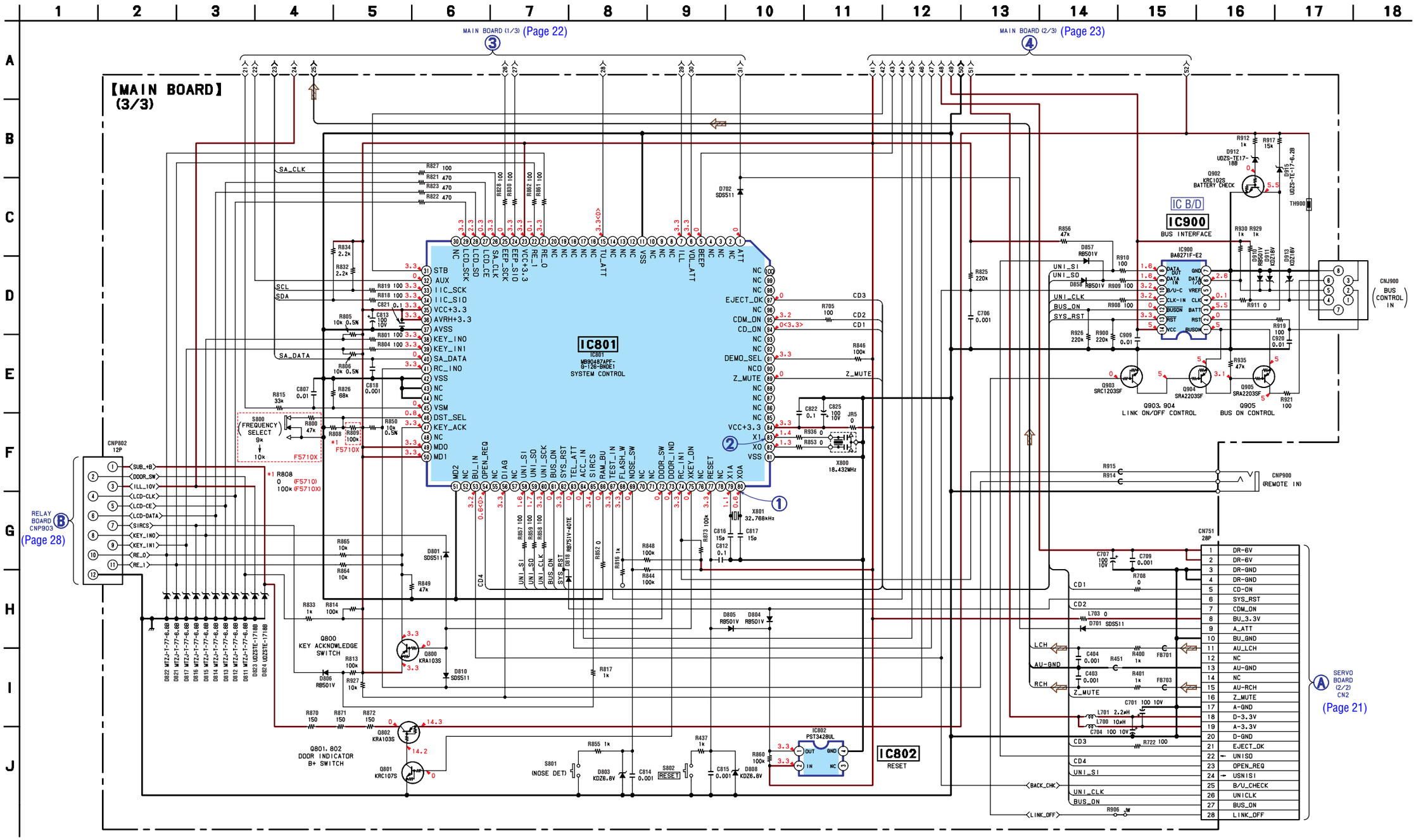


3-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



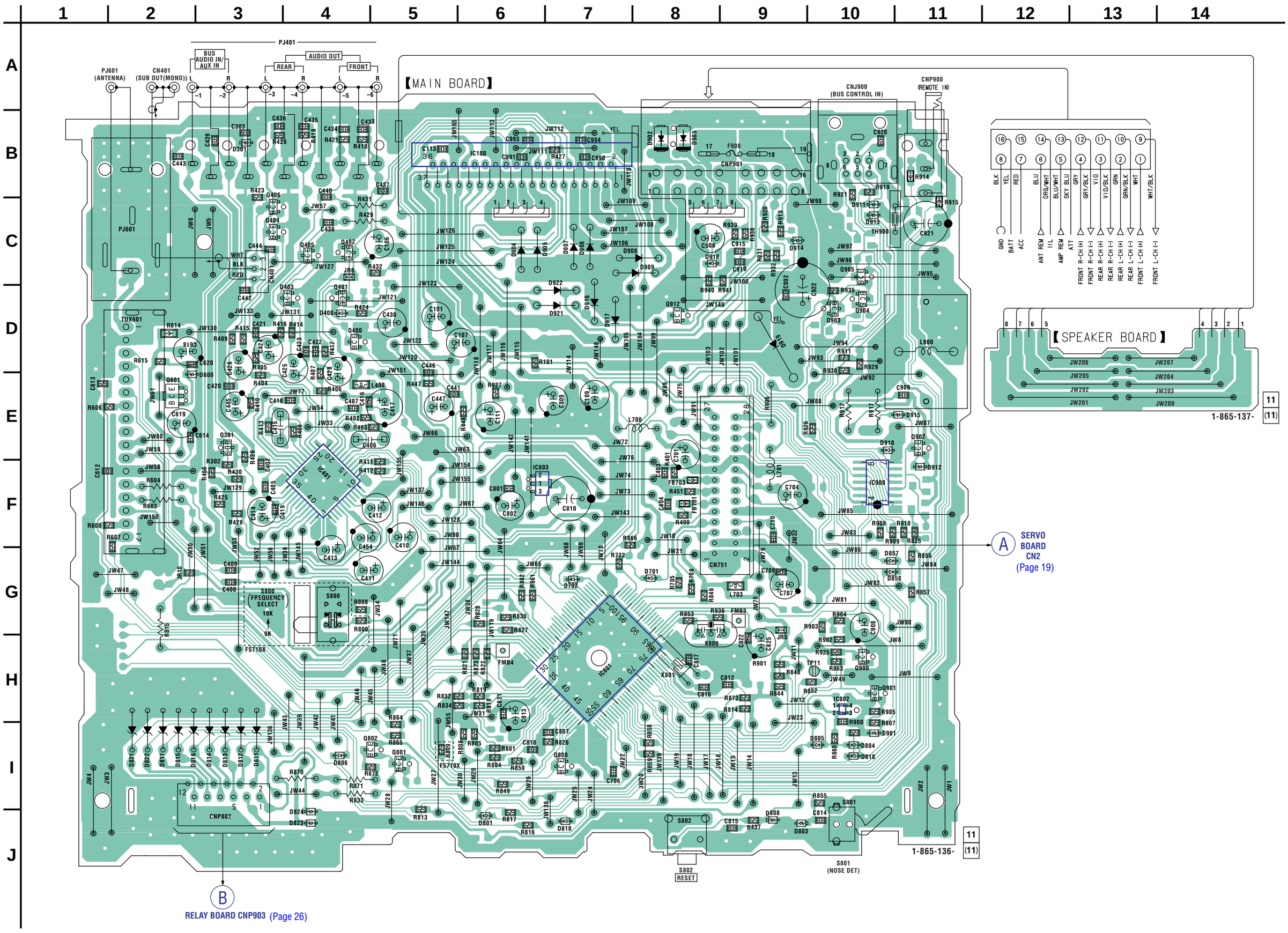
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

• Refer to page 18 for Waveforms.
• Refer to page 31 for IC Block Diagram.
• Refer to page 34 for IC Pin Descriptions.

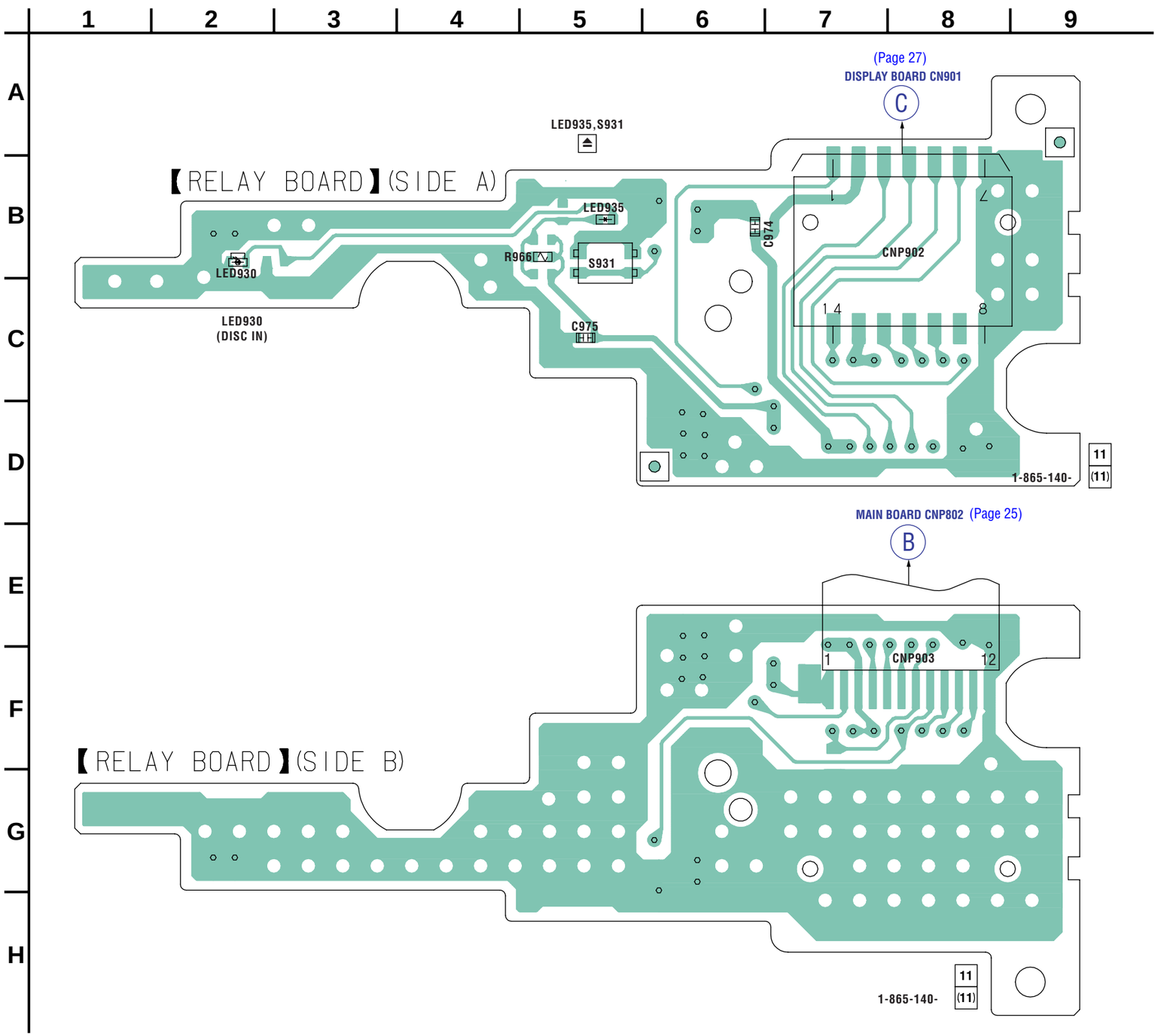


• Semiconductor Location

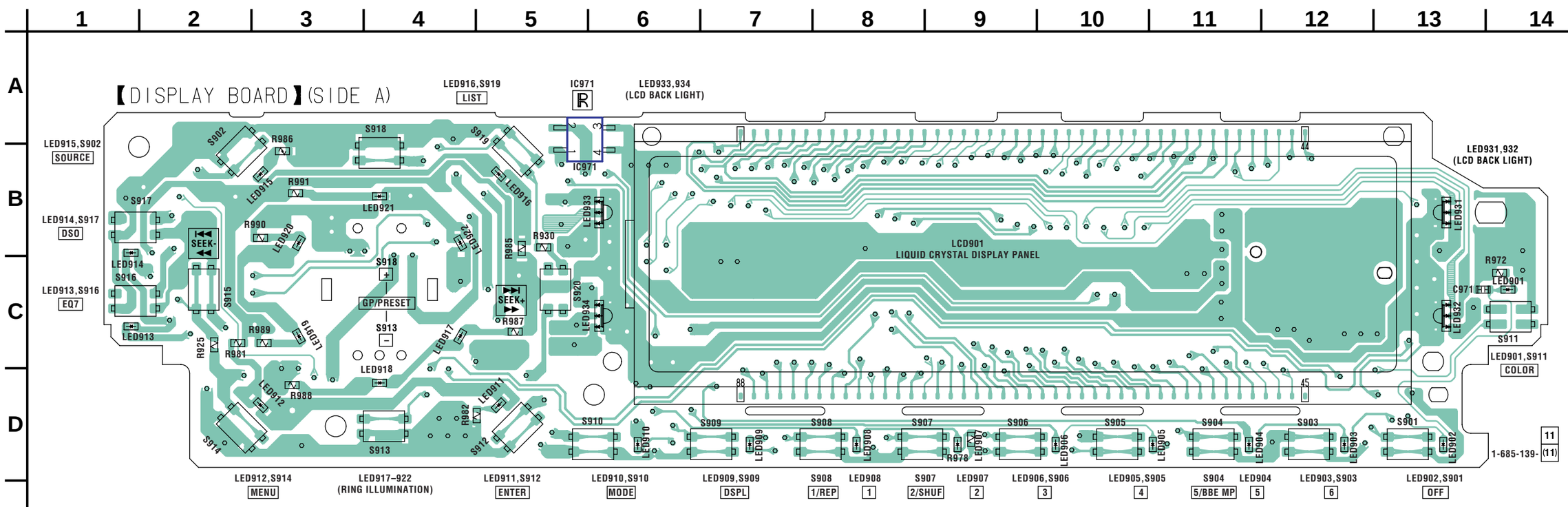
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	B-3	D810	J-7	D823	J-4	D908	C-8	D919	D-9	Q301	E-3	Q802	I-5
D400	D-4	D811	I-3	D824	J-4	D909	C-8	D921	D-7	Q400	D-4	Q900	H-10
D600	E-2	D812	I-3	D857	G-10	D910	E-10	D922	D-7	Q401	D-4	Q901	H-10
D701	G-8	D813	I-3	D858	G-10	D911	C-10			Q402	C-4	Q902	E-11
D702	G-7	D814	I-3	D901	I-10	D912	F-11	IC100	B-6	Q403	D-4	Q903	D-10
D801	J-6	D815	I-2	D902	B-8	D913	C-10	IC401	F-4	Q404	C-3	Q904	D-10
D803	J-9	D816	I-2	D903	B-8	D914	C-9	IC801	H-7	Q405	C-4	Q905	C-10
D804	I-10	D817	I-2	D904	C-6	D915	E-11	IC802	H-10	Q406	C-3	Q912	D-8
D805	I-10	D818	I-10	D905	C-6	D916	D-7	IC803	F-6	Q601	E-2		
D806	I-4	D821	I-2	D906	C-7	D917	D-7	IC900	F-10	Q800	I-7		
D808	J-9	D822	I-2	D907	C-7	D918	C-8			Q801	I-5		


【MAIN BOARD】
【SPEAKER BOARD】
PJ401
BUS AUDIO IN/ AUX IN
AUDIO OUT
REAR
FRONT
PJ601 (ANTENNA)
CN401 (SUB OUT(MONO))
CNJ900 (BUS CONTROL IN)
CNP900 (REMOTE IN)
BLK YEL RED
GND BATT ACC
BLU ORG/WHT BLU/WHT SKY BLU GRY GRY/BLK VIO VIO/BLK GRN GRN/BLK WHT WHT/BLK
ANT REM ILL AMP REM ATT
FRONT R-CH (+) FRONT R-CH (-) REAR R-CH (+) REAR R-CH (-) REAR L-CH (+) REAR L-CH (-) FRONT L-CH (+) FRONT L-CH (-)
JW206 JW207 JW205 JW204 JW202 JW203 JW201 JW200
11
(11)
1-865-137-
S800 FREQUENCY SELECT
10K
9K
F5710X
S801 (NOSE DET)
S802 RESET
CNP802
A SERVO BOARD CN2 (Page 19)
B RELAY BOARD CNP903 (Page 26)

3-12. PRINTED WIRING BOARD — RELAY SECTION — • Refer to page 17 for Circuit Boards Location. : Uses unleaded solder.



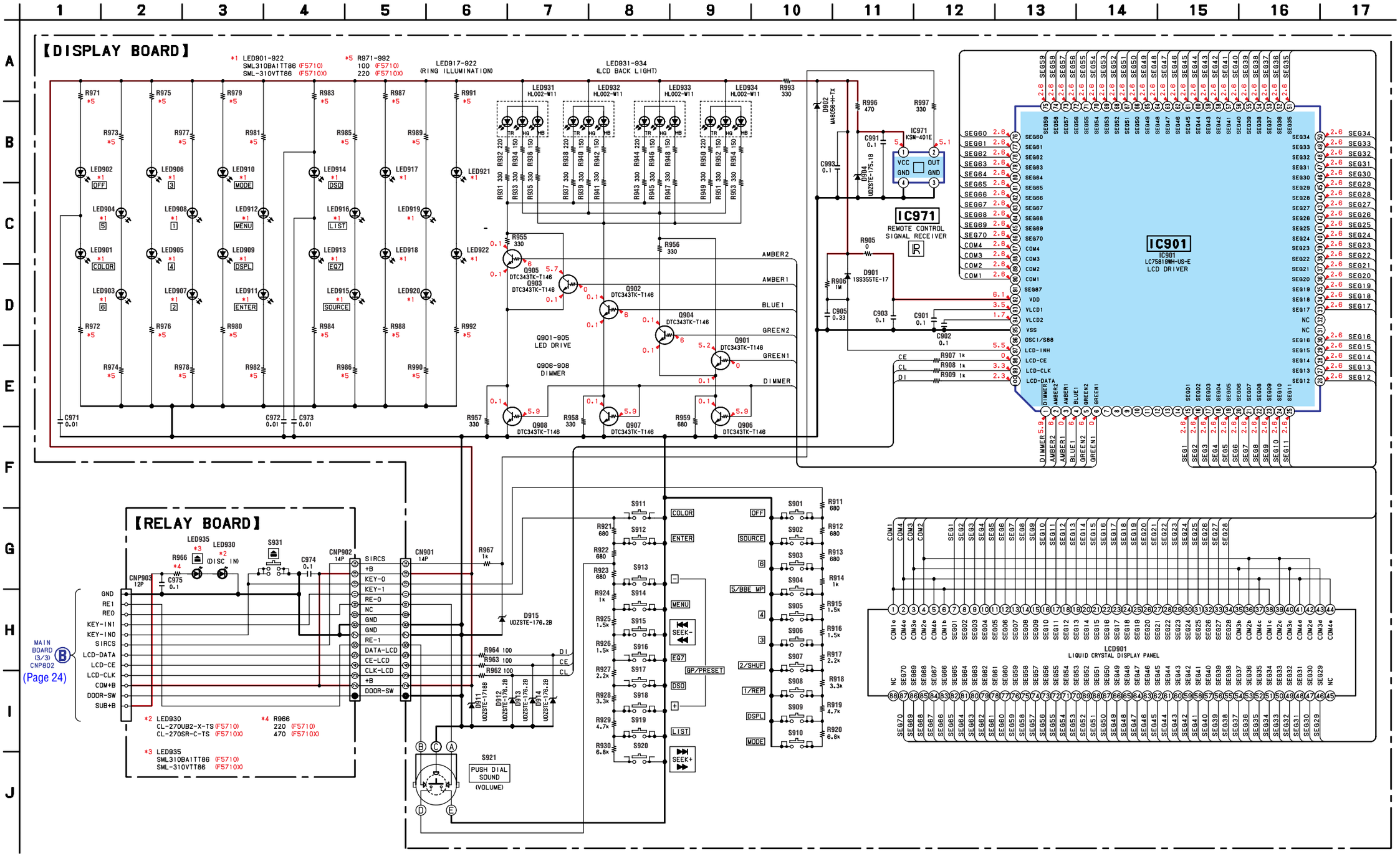
3-13. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 17 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

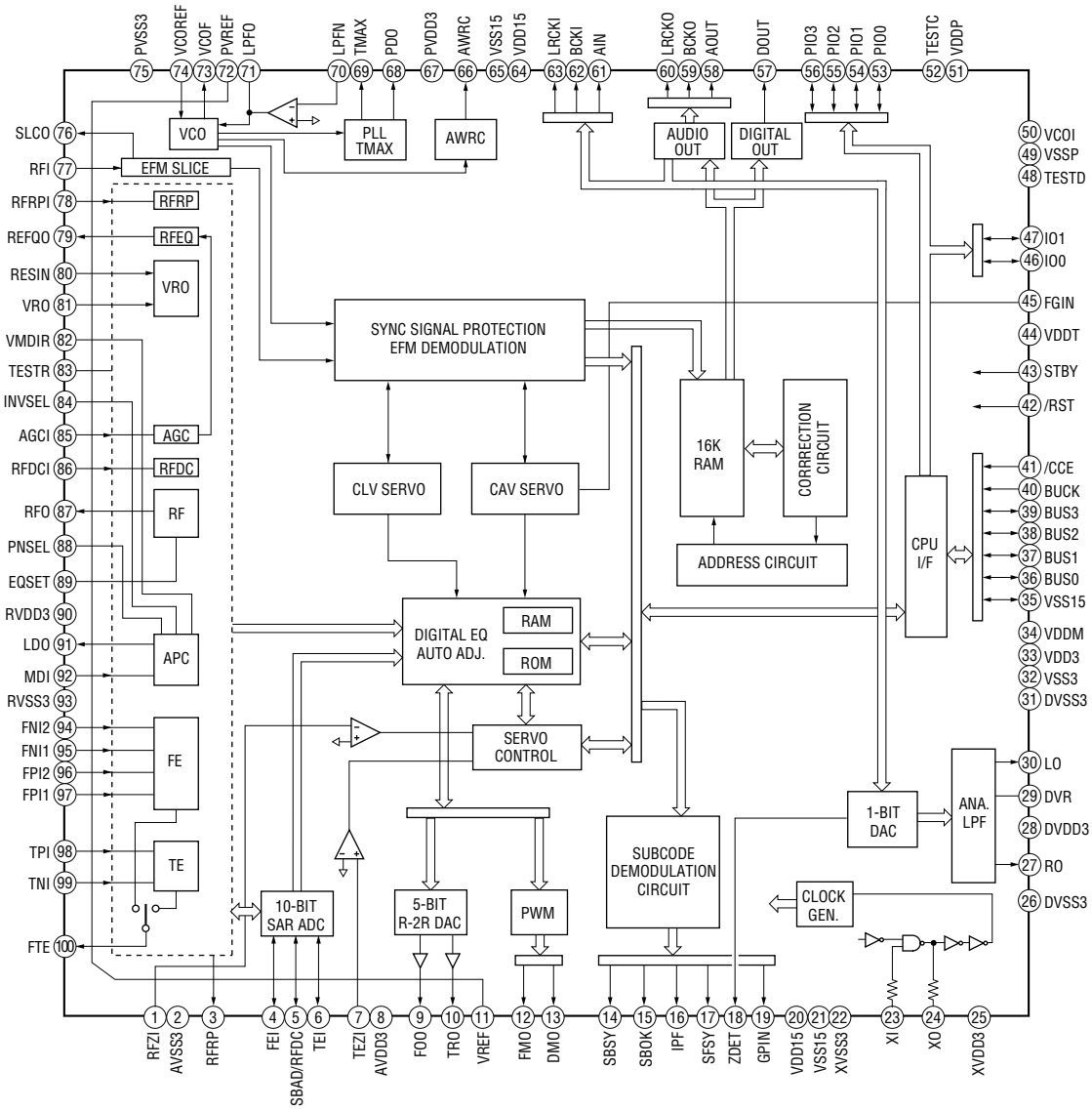
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D901	G-6	IC971	B-5	LED909	D-7	LED919	C-3	Q902	H-2
D902	G-11			LED910	D-6	LED920	B-3	Q903	G-3
D904	H-5	LED901	C-14	LED911	D-5	LED921	B-4	Q904	H-3
D911	G-11	LED902	D-13	LED912	C-3	LED922	B-4	Q905	G-3
D912	G-11	LED903	D-12	LED913	C-1	LED931	B-13	Q906	G-2
D913	G-11	LED904	D-11	LED914	B-1	LED932	C-13	Q907	G-3
D914	H-11	LED905	D-11	LED915	B-3	LED933	B-6	Q908	G-2
D915	F-11	LED906	D-10	LED916	B-5	LED934	C-6		
		LED907	D-9	LED917	C-4				
IC901	G-8	LED908	D-8	LED918	D-4	Q901	H-3		

3-14. SCHEMATIC DIAGRAM — DISPLAY SECTION —

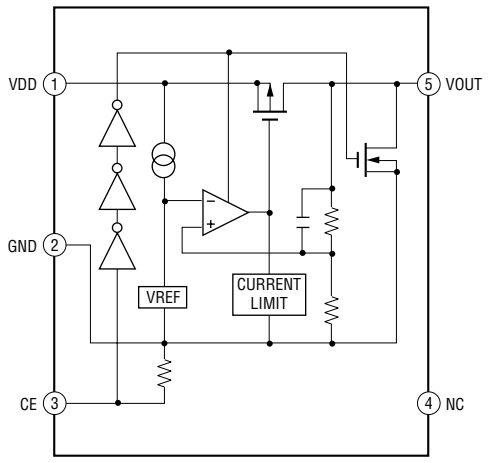


• IC BLOCK DIAGRAMS

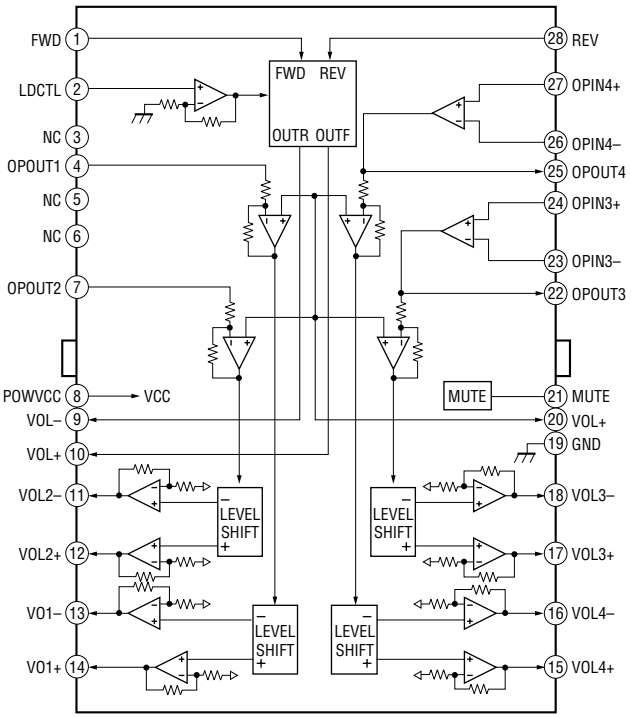
IC2 TC94A60MFG-301 (SERVO Board (1/2))



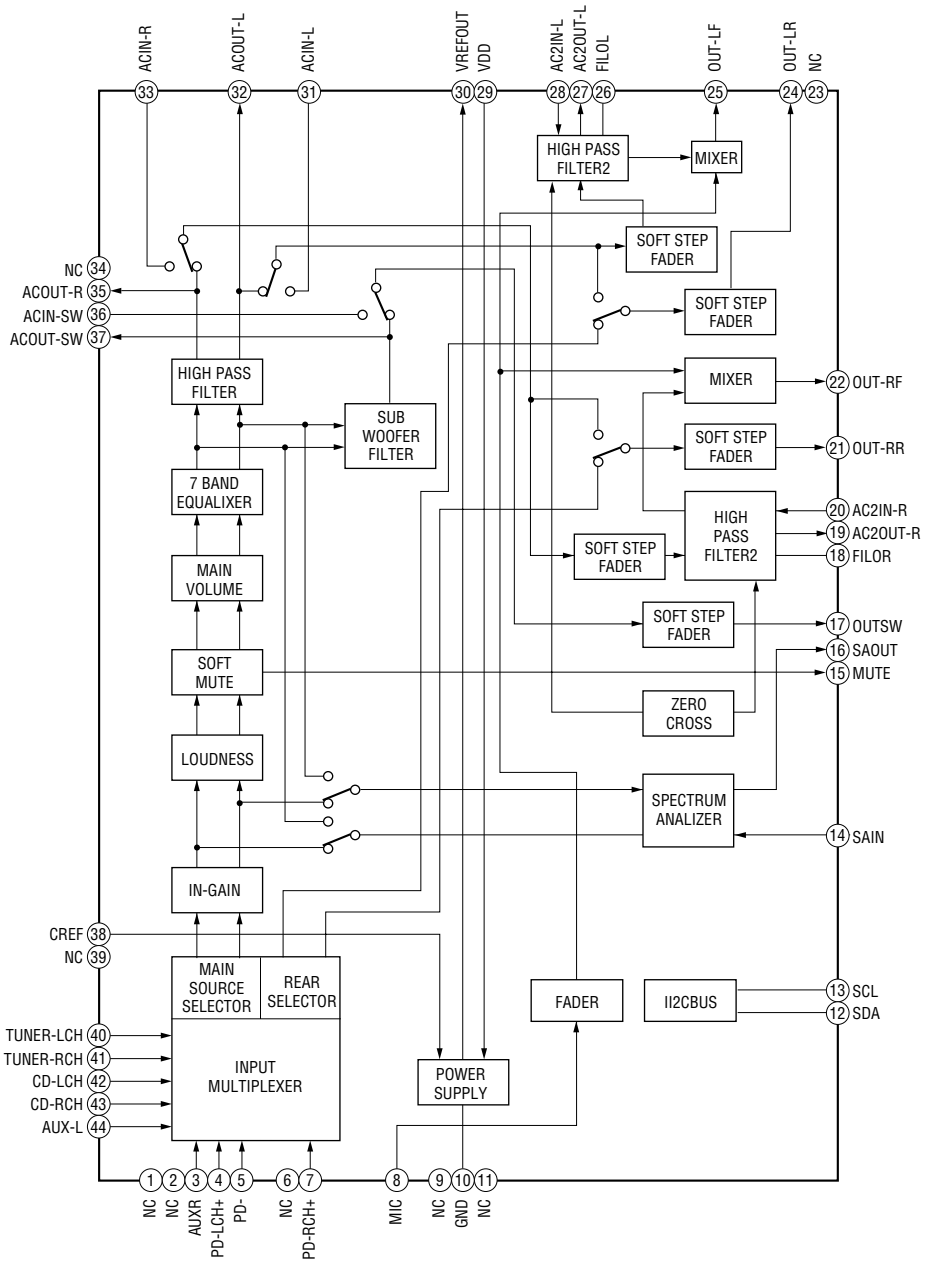
IC6 R1114N151D-TR-FA (SERVO Board (1/2))



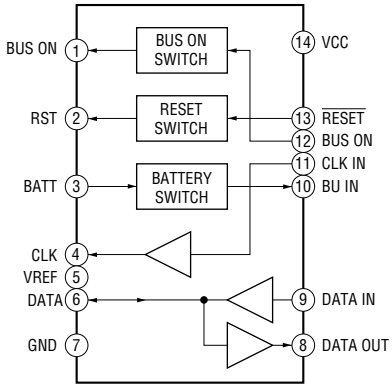
IC1 BA5968FP-E2 (SERVO Board (2/2))



IC401 TDA7416 (MAIN Board (1/3))



IC900 BA8271F-E2 (MAIN Board (3/3))



• IC PIN DESCRIPTIONS

• IC3 MB90487APFV-G-131-BNDE1 (CD SYSTEM CONTROL) (SERVO BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	NC	O	Servo 1.5 V power supply control signal output
2 to 6	NC	—	Not used. (Open)
7	CD BUS0	I/O	Bus data signal input/output 0
8	CD BUS1	I/O	Bus data signal input/output 1
9	VSS	—	Ground pin
10	CD BUS2	I/O	Bus data signal input/output 2
11	CD BUS3	I/O	Bus data signal input/output 3
12	CD BUCK	O	Bus clock signal output
13	CD XCCE	O	Chip enable signal output
14	CD XRST	O	Reset signal output
15	CD ZDET	I	Zero detection signal input
16 to 20	NC	—	Not used. (Open)
21	VCC	—	Power supply pin (+3.3 V)
22	DAC ZDETL	I	Zero data detection signal input (L-ch)
23	DAC ZDETR	I	Zero data detection signal input (R-ch)
24	NC	—	Not used. (Open)
25	RXD	I	UART RXD data signal input (MCBUS/Flash data input)
26	TXD	O	UART TXD data signal output (MCBUS/Flash data output)
27	DEC SSTBY	O	SRAM STANDBY mode control signal output
28, 29	NC	—	Not used. (Open)
30	DEC INT	I	Request signal input
31, 32	NC	—	Not used. (Open)
33	AVCC	—	Power supply pin (+3.3 V) for A/D converter
34	AVRH	—	External reference voltage for A/D converter
35	AVSS	—	Ground pin
36	NC	—	Not used. (Open)
37	DEC XMUTE	O	Mute signal output L: mute
38, 39	NC	—	Not used. (Open)
40	VSS	—	Ground pin
41	NC	—	Not used. (Open)
42	MEC LIMIT	I	Sled limit in detection switch signal input
43	MEC LOAD	O	Loading motor signal output (Load direction)
44	MEC EJECT	O	Loading motor signal output (Eject direction)
45	MEC INSW	I	Pack-in detection signal input
46	MEC DSW	I	Chucking end detection switch signal input
47, 48	MD0, MD1	I	CPU operation mode designation signal input (Connect to Vcc.)
49	MD2	I	CPU operation mode designation signal input (Connect to Vss.)
50	$\overline{\text{BUS ON}}$	I	Bus on signal input L: bus on
51	BU IN	I	Backup on/off signal input H: backup on, L: backup off
52	$\overline{\text{CD SBSY}}$	I	SUBQ sync signal input L: interruption
53	$\overline{\text{MEC SELFSW}}$	I	Disc insert detection switch signal input L: disc in interruption
54, 55	NC	—	Not used. (Open)
56	UNISI	I	Serial data signal input
57	UNISO	O	Serial data signal output
58	UNICKI	I	Serial clock signal input
59	LINEOFF	O	Line off signal output
60	A ATT	O	Audio attenuation signal output H: ATT on
61	EJECT OK	I	Front panel open signal input H: eject
62	OPEN REQ	O	Front panel open/close request signal output H: open request
63	MECON	O	Mechanism deck power supply control signal output
64	CDON	O	Servo power supply control signal output

Pin No.	Pin Name	I/O	Pin Description
65	XUART	I	Sony-Bus/MC-Bus change signal input H: Sony-Bus, L: MC-Bus
66	ZMUTE	O	Zero detection mute signal output
67	MECON CHK	I	MECON rising detection signal input
68	CDON CHK	I	CDON rising detection signal input
69 to 74	NC	—	Not used. (Open)
75	$\overline{\text{RSTX}}$	I	System reset signal input
76	NC	—	Not used. (Open)
77	X1A	—	Sub-clock connect pin Not used in this set. (Open)
78	X0A	—	Sub-clock connect pin Not used in this set. (Connect to Vss.)
79	VSS	—	Ground pin
80	X0	I	Main-clock connect pin (12 MHz)
81	X1	O	Main-clock connect pin (12 MHz)
82	VCC	—	Power supply pin (+3.3 V)
83	XTS	I	Not used in this set. (Open)
84	XINIT3	I	Not used in this set. (Open)
85	NC	—	Not used. (Open)
86	XSJIG	I	Not used in this set. (Open)
87 to 89	XINIT0 to 2	I	Not used in this set. (Open)
90 to 97	NC	—	Not used. (Open)
98	XLINE	I	Not used in this set. (Open)
99, 100	NC	—	Not used. (Open)

• IC801 MB90487APF-G-126-BNDE1 (SYSTEM CONTROL) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	ATT	O	Audio mute control signal output
2 to 4	NC	—	Not used in this set. (Open)
5	BEEP	O	Beep signal output to power amp IC
6	VOL ATT	O	Electrical volume ATT control output
7	ILL	I	Illumination detect signal input for auto dimmer H: ILL off
8 to 10	NC	—	Not used in this set. (Open)
11	VSS	—	Ground pin
12 to 14	NC	—	Not used in this set. (Open)
15	TU ATT	O	Tuner mute control output
16 to 20	NC	—	Not used in this set. (Open)
21	RE 0	I	Rotary encoder signal input 0
22	RE 1	I	Rotary encoder signal input 1
23	VCC+3.3	—	Power supply pin (+3.3 V)
24	EEP SIO	I/O	Serial data signal input/output for EEPROM communication
25	EEP SCK	O	Serial clock signal output for EEPROM communication
26	SA CLK	O	Serial clock signal output for spectrum analyzer to electronic volume IC
27	LCD CE	O	Chip enable signal output to LCD driver IC Flash: serial in
28	LCD SO	O	Serial data signal output to LCD driver IC Flash: UART serial out
29	LCD SCK	O	Serial clock signal output to LCD driver IC
30	NC	—	Not used in this set. (Open)
31	STB	O	Standby signal output to power amp IC
32	AUX	O	AUX/BUS IN select signal output L: AUX
33	IIC SCK	O	IIC bus serial clock signal output
34	IIC SIO	I/O	IIC bus serial data signal input/output
35	VCC+3.3	—	Power supply pin (+3.3 V) (for A/D converter)
36	AVRH+3.3	—	External reference power supply (+3.3 V) (for A/D converter)
37	AVSS	—	Ground pin (for A/D converter)
38, 39	KEY IN0, 1	I	Key signal input
40	SA DATA	I	Serial data signal input to electronic volume IC
41	RC IN0	I	Rotary commander key signal input
42	VSS	—	Ground pin
43, 44	NC	—	Not used in this set. (Fixed at “L”.)
45	VSM	I	S meter voltage detect signal input
46	DST SEL	I	Destination select pin
47	KEY ACK	I	Key acknowledge detect signal input
48	NC	—	Not used in this set. (Open)
49, 50	MD0, 1	I	Input for operation mode designation (Fixed at “H”.)
51	MD2	I	Input for operation mode designation (Fixed at “L”.)
52	NC	—	Not used in this set. (Open)
53	BU IN	I	Back up power supply detect signal input
54	OPEN REQ	I	Open REQ signal input
55	NC	—	Not used in this set. (Open)
56	DIAG	I	Condition input from power amp IC
57	NC	—	Not used in this set. (Open)
58	UNI SI	I	Serial data signal input
59	UNI SO	O	Serial data signal output
60	UNI SCK	O	Serial clock signal output
61	BUS ON	O	Bus on signal output
62	SYS RST	O	System reset signal output
63	TEL ATT	I	TEL ATT detect input
64	ACC IN	I	Accessory power supply detect signal input
65	SIRCS	I	Remote control signal (infrared rays) input

Pin No.	Pin Name	I/O	Pin Description
66	RAM BU	O	Not used in this set. (Fixed at “L”.)
67	TEST IN	I	Test mode detect signal input
68	FLASH W	I	Memory mode changeover signal input Normally “H” input (single chip mode) “L” after reset: Flash write mode
69	NOSE SW	I	Front panel attachment detect signal input “L” input: With panel, “H” input: Without panel
70, 71	NC	—	Not used in this set. (Open)
72	DOOR SW	I	Front panel open/close detect signal input “L” input: Panel close, “H” input: Panel open
73	DOOR IND	O	Sub panel power supply control signal output
74	RC IN1	I	Rotary commander shift key signal input
75	XKEY ON	O	Key power supply control signal output Pin ㊼ (KEY ACK) active: “L” output
76	NC	—	Not used in this set. (Open)
77	RESET	I	Reset signal input
78	NC	—	Not used in this set. (Open)
79	X1A	—	Oscillator connect pin (32.768 kHz)
80	X0A	—	Oscillator connect pin (32.768 kHz)
81	VSS	—	Ground pin
82	X0	—	Oscillator connect pin (18.432 MHz)
83	X1	—	Oscillator connect pin (18.432 MHz)
84	VCC+3.3	—	Power supply pin (+3.3 V)
85 to 88	NC	—	Not used in this set. (Open)
89	Z MUTE	I	Mechanism deck mute zero closs detect signal input
90	NCO	O	Not used. (Open)
91	DEMO SEL	O	DEMO select signal output (Fixed at “H”.)
92, 93	NC	—	Not used in this set. (Open)
94	CD ON	I	Servo power supply control request signal input from CD mechanism
95	CDM ON	I	CD mechanism power supply control request signal input from CD mechanism
96	NC	—	Not used in this set. (Open)
97	EJECT OK	O	Front panel open information signal output to CD mechanism
98 to 100	NC	—	Not used in this set. (Open)

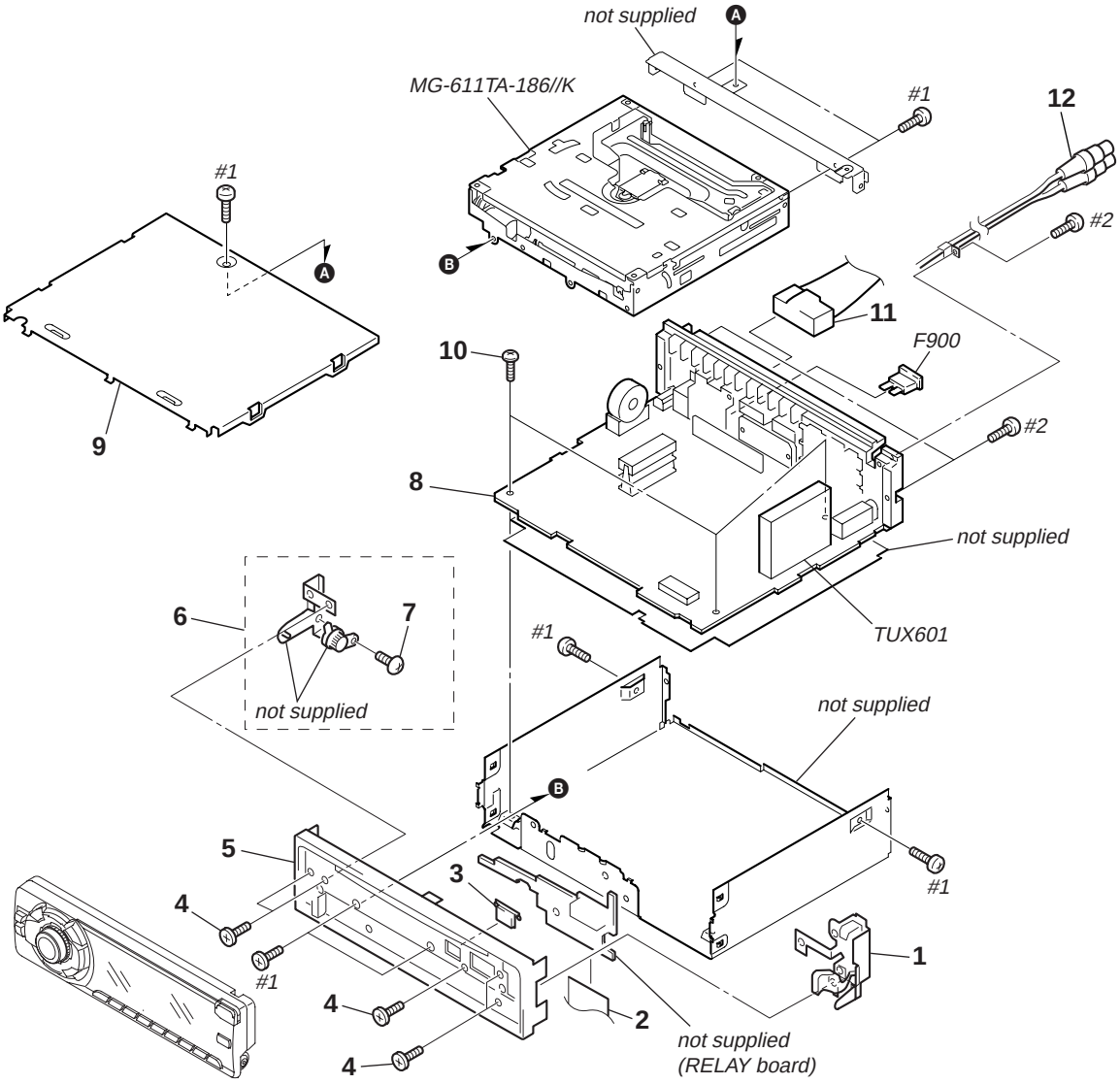
SECTION 4
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

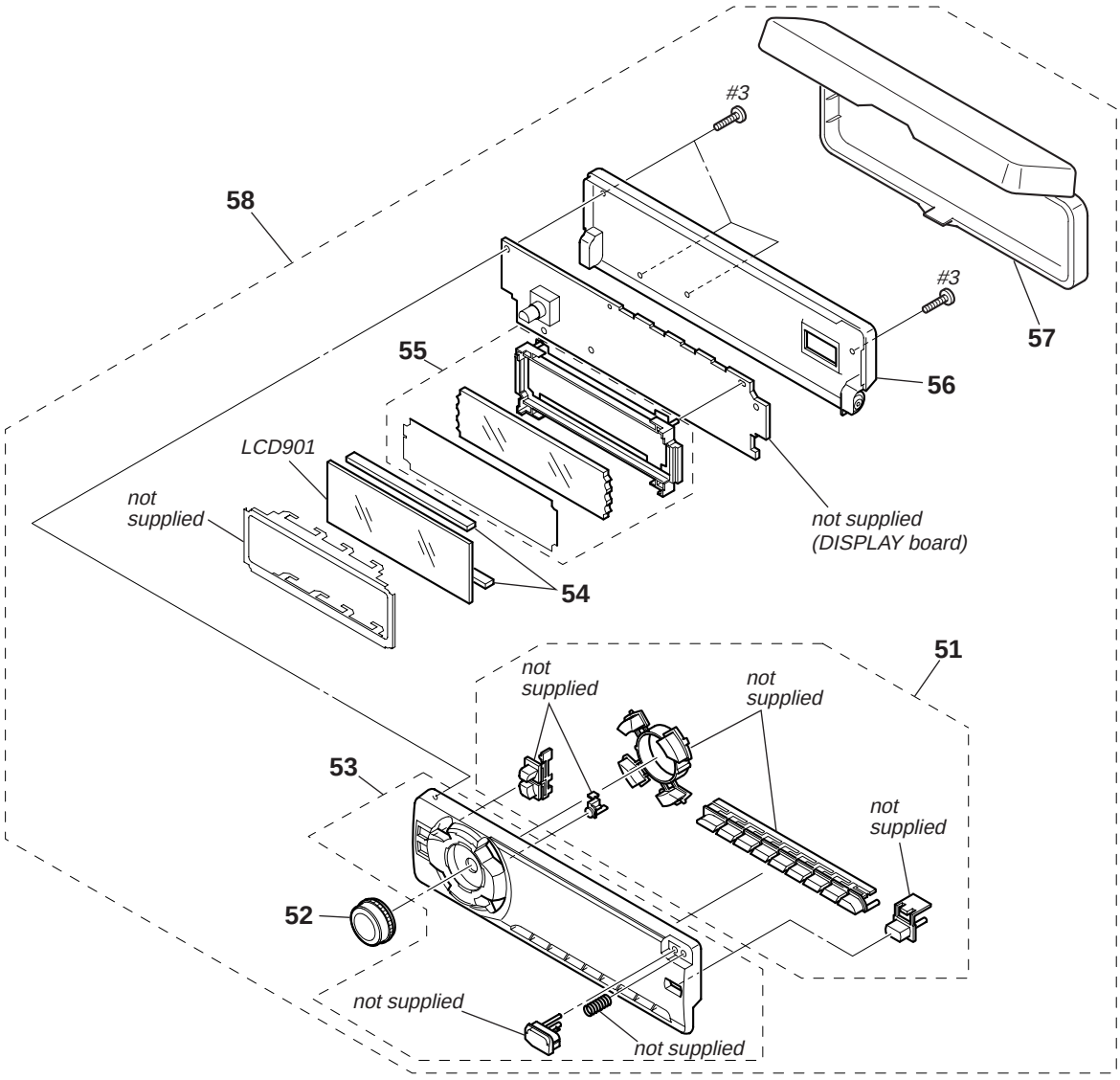
4-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-3384-273-1	LOCK ASSY	
2	1-792-173-11	CABLE, FLAT (FFC) 12P	
3	3-246-030-01	BUTTON (EJECT)	
4	3-261-903-01	SCREW (+BTT M2X5)	
5	X-3384-270-1	PANEL ASSY (CD), SUB	
6	X-3384-271-2	GEAR ASSY	
7	3-713-786-51	SCREW +P 2X3	
8	A-1087-918-A	MAIN BOARD, COMPLETE (F5710)	
8	A-1087-924-A	MAIN BOARD, COMPLETE (F5710X)	

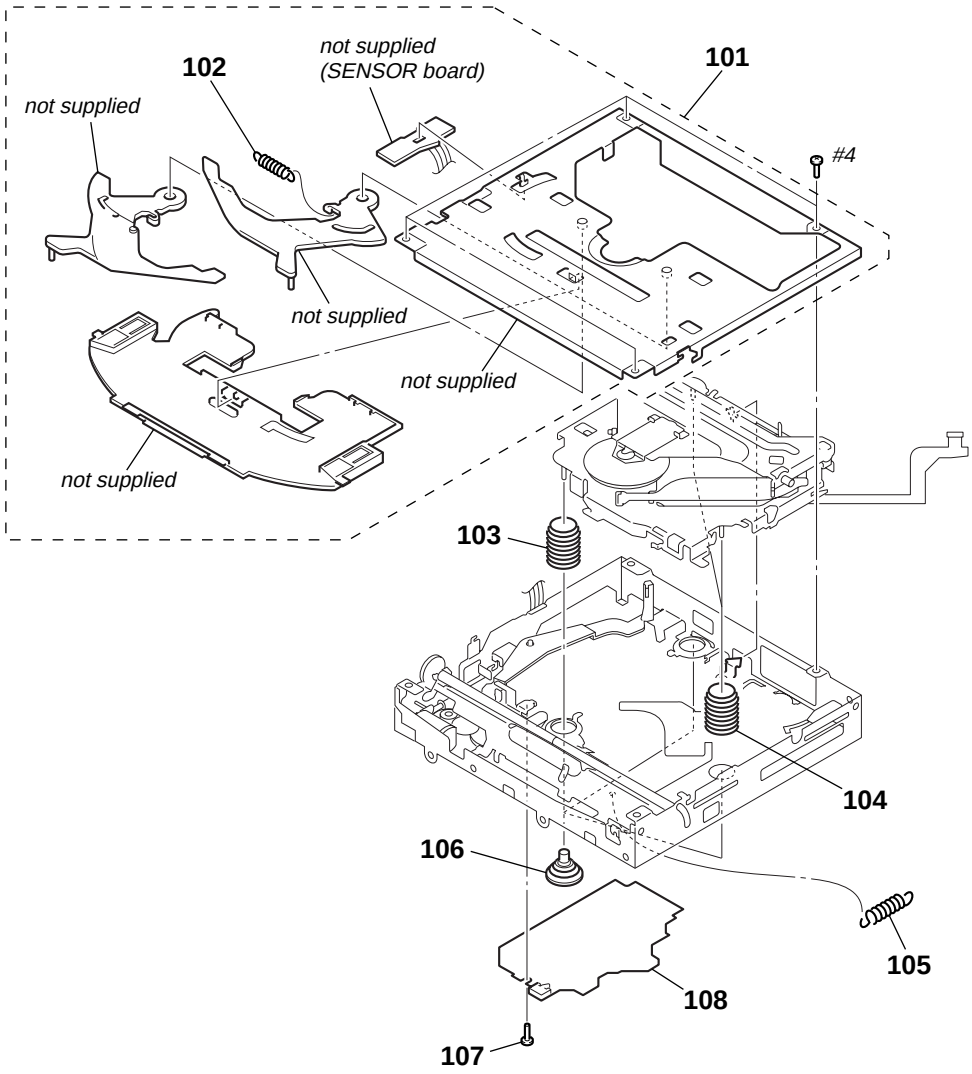
Ref. No.	Part No.	Description	Remark
* 9	3-246-006-31	COVER	
10	3-922-535-11	SCREW (+BTT)	
11	1-776-207-72	CORD (WITH CONNECTOR) (POWER)	
12	1-790-375-12	CORD (WITH CONNECTOR) (SUB OUT (MONO))	
F900	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TUX601	A-3220-961-A	TUNER UNIT (TUX-032)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	

4-2. FRONT PANEL SECTION



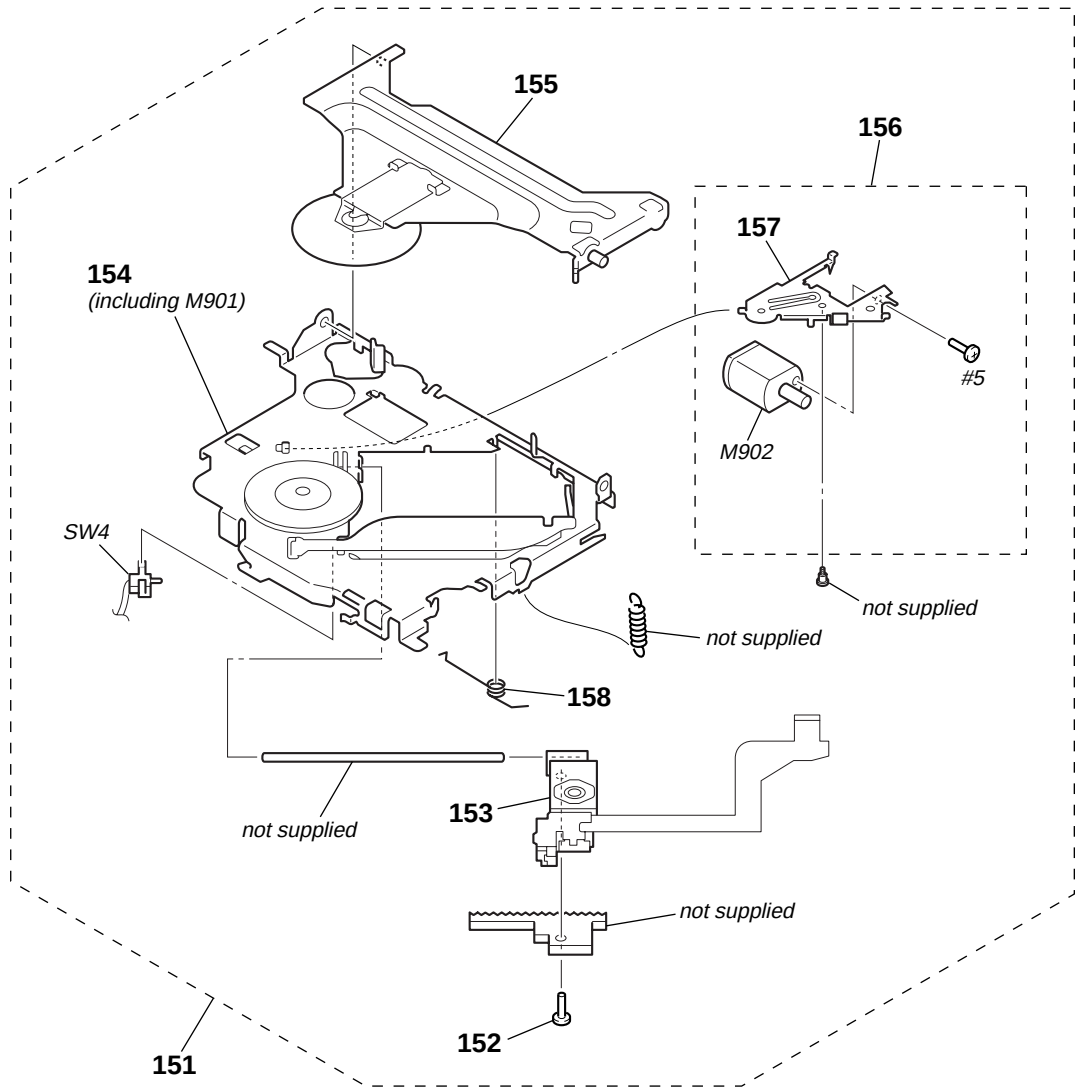
Ref. No.	Part No.	Description	Remark
51	X-2024-956-1	KIT (SVX) ASSY, BUTTON (F5710)	
51	X-2024-957-1	KIT (SVX) ASSY, BUTTON (F5710X)	
52	X-3384-637-1	VOL (SVX) ASSY, KNOB	
53	X-2024-952-1	PANEL ASSY (SVX), FRONT (F5710)	
53	X-2024-953-1	PANEL ASSY (SVX), FRONT (F5710X)	
54	1-780-097-11	CONDUCTIVE BOARD, CONNECTION	
55	X-3384-502-2	PLATE SUB ASSY (P), LIGHT GUIDE	
56	X-3384-284-1	PANEL ASSY (SVX), FRONT BACK	
57	X-3378-390-3	CASE (PANEL) ASSY (for FRONT PANEL)	
58	A-1087-965-A	OVERALL ASSY (F5710)	
58	A-1087-970-A	OVERALL ASSY (F5710X)	
LCD901	1-805-738-11	DISPLAY PANEL, LIQUID CRYSTAL	
#3	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

4-3. CD MECHANISM SECTION (1)
(MG-611TA-186//K)



Ref. No.	Part No.	Description	Remark
101	A-3372-455-A	CHASSIS (T) SUB ASSY	
102	3-253-729-01	SPRING (LTR), TENSION COIL	
103	3-253-746-14	SPRING (DAMPER), COMPRESSION	
104	3-253-746-03	SPRING (DAMPER), COMPRESSION	
105	2-345-767-01	SPRING (KF60), TENSION	
106	3-253-748-01	DAMPER (S)	
107	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
108	A-1075-784-A	SERVO BOARD, COMPLETE	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

4-4. CD MECHANISM SECTION (2)
(MG-611TA-186//K)

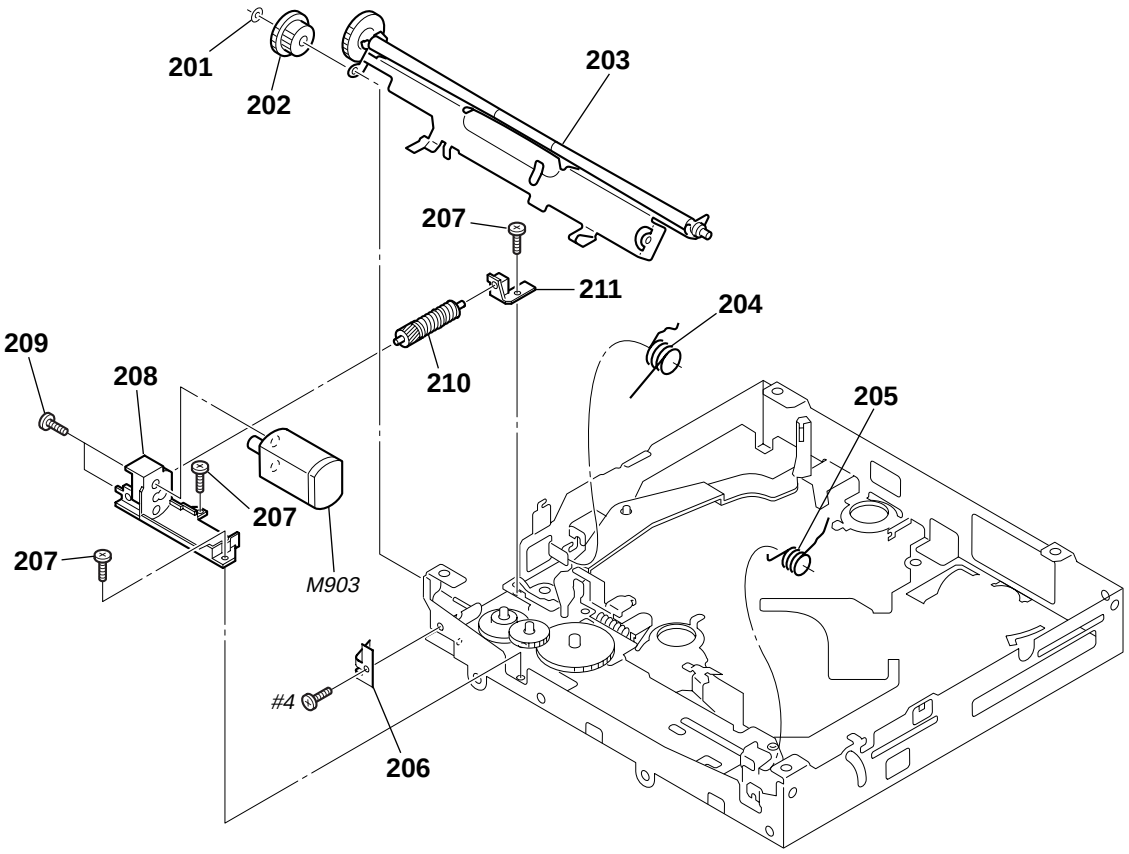


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	A-1075-786-A	CHASSIS (OP) COMPLETE ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING	
⚠153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-1075-787-A	CHASSIS (OP) SUB ASSY (including M901)	
155	A-3337-641-A	ARM SUB ASSY, CHUCKING	
156	A-3337-639-A	LEVER (SL) SUB ASSY	

Ref. No.	Part No.	Description	Remark
157	X-3383-454-3	LEVER (SL) ASSY	
158	3-261-959-02	SPRING (SL), TORSION	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

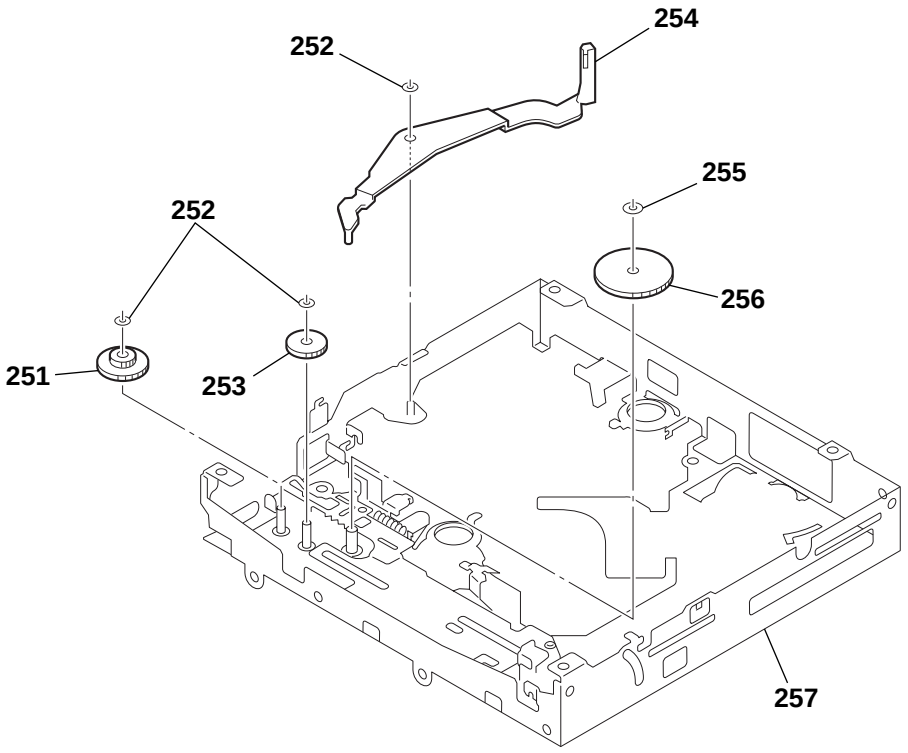
4-5. CD MECHANISM SECTION (3)
(MG-611TA-186//K)



Ref. No.	Part No.	Description	Remark
201	3-262-755-01	WASHER (1.1-2.5)	
202	2-186-699-11	GEAR (RA1)	
203	A-1075-789-A	ARM ASSY, ROLLER	
204	3-259-455-02	SPRING (RAL)	
205	3-253-713-01	SPRING (RAR)	
206	3-259-469-01	SPRING (LE), LEAF	
207	2-134-636-31	SCREW (M1.7X2.5)	

Ref. No.	Part No.	Description	Remark
208	2-186-696-11	BRACKET (LEM-N)	
209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
210	A-1083-637-A	GEAR (LE) ASSY	
211	2-186-697-11	BEARING (LEB-N)	
M903	A-1075-792-A	MOTOR ASSY, LE (LOADING)	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

4-6. CD MECHANISM SECTION (4)
(MG-611TA-186//K)



Ref. No.	Part No.	Description	Remark
251	2-186-700-11	GEAR (CHK1)	
252	3-344-223-01	WASHER	
253	3-259-470-01	GEAR (LE1)	
254	3-253-755-02	LEVER (D)	

Ref. No.	Part No.	Description	Remark
255	3-899-829-01	WASHER (SLIT)	
256	3-259-032-01	GEAR (LE2)	
257	A-1075-791-A	CHASSIS (M) BLOCK ASSY	

DISPLAY

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA..: µPA..
  uPB.. : µPB.. uPC..: µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		DISPLAY BOARD	
		**********	
	X-3384-502-2	PLATE SUB ASSY (P), LIGHT GUIDE	
	1-780-097-11	CONDUCTIVE BOARD, CONNECTION	
		< CAPACITOR >	
C901	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C902	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C905	1-128-934-91	CERAMIC CHIP 0.33uF 20% 10V	
C971	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C972	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C973	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C991	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C993	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >	
CN901	1-817-158-11	PLUG, CONNECTOR 14P	
		< DIODE >	
D901	8-719-988-61	DIODE 1SS355TE-17	
D902	8-719-977-03	DIODE DTZ5.6B	
D904	8-719-069-54	DIODE UDZSTE-175.1B	
D911	8-719-083-66	DIODE UDZSTE-1718B	
D912	8-719-069-56	DIODE UDZSTE-176.2B	
D913	8-719-069-56	DIODE UDZSTE-176.2B	
D914	8-719-069-56	DIODE UDZSTE-176.2B	
D915	8-719-069-56	DIODE UDZSTE-176.2B	
		< IC >	
IC901	6-707-065-01	IC LC75819WH-US-E	
IC971	6-600-384-01	IC KSM-401E (IR)	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-805-738-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED901	6-500-476-01	LED SML310BA1TT86 (COLOR) (F5710)	
LED901	8-719-053-09	LED SML-310VTT86 (COLOR) (F5710X)	
LED902	6-500-476-01	LED SML310BA1TT86 (OFF) (F5710)	
LED902	8-719-053-09	LED SML-310VTT86 (OFF) (F5710X)	
LED903	6-500-476-01	LED SML310BA1TT86 (6) (F5710)	
LED903	8-719-053-09	LED SML-310VTT86 (6) (F5710X)	
LED904	6-500-476-01	LED SML310BA1TT86 (5) (F5710)	
LED904	8-719-053-09	LED SML-310VTT86 (5) (F5710X)	
LED905	6-500-476-01	LED SML310BA1TT86 (4) (F5710)	
LED905	8-719-053-09	LED SML-310VTT86 (4) (F5710X)	
LED906	6-500-476-01	LED SML310BA1TT86 (3) (F5710)	
LED906	8-719-053-09	LED SML-310VTT86 (3) (F5710X)	
LED907	6-500-476-01	LED SML310BA1TT86 (2) (F5710)	
LED907	8-719-053-09	LED SML-310VTT86 (2) (F5710X)	
LED908	6-500-476-01	LED SML310BA1TT86 (1) (F5710)	
LED908	8-719-053-09	LED SML-310VTT86 (1) (F5710X)	
LED909	6-500-476-01	LED SML310BA1TT86 (DSPL) (F5710)	
LED909	8-719-053-09	LED SML-310VTT86 (DSPL) (F5710X)	
LED910	6-500-476-01	LED SML310BA1TT86 (MODE) (F5710)	
LED910	8-719-053-09	LED SML-310VTT86 (MODE) (F5710X)	
LED911	6-500-476-01	LED SML310BA1TT86 (ENTER) (F5710)	
LED911	8-719-053-09	LED SML-310VTT86 (ENTER) (F5710X)	
LED912	6-500-476-01	LED SML310BA1TT86 (MENU) (F5710)	
LED912	8-719-053-09	LED SML-310VTT86 (MENU) (F5710X)	
LED913	6-500-476-01	LED SML310BA1TT86 (EQ7) (F5710)	
LED913	8-719-053-09	LED SML-310VTT86 (EQ7) (F5710X)	
LED914	6-500-476-01	LED SML310BA1TT86 (DSO) (F5710)	
LED914	8-719-053-09	LED SML-310VTT86 (DSO) (F5710X)	
LED915	6-500-476-01	LED SML310BA1TT86 (SOURCE) (F5710)	
LED915	8-719-053-09	LED SML-310VTT86 (SOURCE) (F5710X)	
LED916	6-500-476-01	LED SML310BA1TT86 (LIST) (F5710)	
LED916	8-719-053-09	LED SML-310VTT86 (LIST) (F5710X)	
LED917	6-500-476-01	LED SML310BA1TT86 (RING ILLUMINATION) (F5710)	
LED917	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (F5710X)	
LED918	6-500-476-01	LED SML310BA1TT86 (RING ILLUMINATION) (F5710)	
LED918	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (F5710X)	
LED919	6-500-476-01	LED SML310BA1TT86 (RING ILLUMINATION) (F5710)	
LED919	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (F5710X)	
LED920	6-500-476-01	LED SML310BA1TT86 (RING ILLUMINATION) (F5710)	
LED920	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (F5710X)	
LED921	6-500-476-01	LED SML310BA1TT86 (RING ILLUMINATION) (F5710)	
LED921	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION) (F5710X)	

Ref. No.	Part No.	Description	Remark
LED922	6-500-476-01	LED SML310BA1TT86 (RING ILLUMINATION)	(F5710)
LED922	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	(F5710X)
LED931	6-500-312-01	LED HL002-W11 (LCD BACK LIGHT)	
LED932	6-500-312-01	LED HL002-W11 (LCD BACK LIGHT)	
LED933	6-500-312-01	LED HL002-W11 (LCD BACK LIGHT)	
LED934	6-500-312-01	LED HL002-W11 (LCD BACK LIGHT)	
		< TRANSISTOR >	
Q901	8-729-920-31	TRANSISTOR DTC343TK	
Q902	8-729-920-31	TRANSISTOR DTC343TK	
Q903	8-729-920-31	TRANSISTOR DTC343TK	
Q904	8-729-920-31	TRANSISTOR DTC343TK	
Q905	8-729-920-31	TRANSISTOR DTC343TK	
Q906	8-729-920-31	TRANSISTOR DTC343TK	
Q907	8-729-920-31	TRANSISTOR DTC343TK	
Q908	8-729-920-31	TRANSISTOR DTC343TK	
		< RESISTOR >	
R905	1-216-864-11	SHORT CHIP 0	
R906	1-216-857-11	METAL CHIP 1M 5%	1/10W
R907	1-216-821-11	METAL CHIP 1K 5%	1/10W
R908	1-216-821-11	METAL CHIP 1K 5%	1/10W
R909	1-216-821-11	METAL CHIP 1K 5%	1/10W
R911	1-216-819-11	METAL CHIP 680 5%	1/10W
R912	1-216-819-11	METAL CHIP 680 5%	1/10W
R913	1-216-819-11	METAL CHIP 680 5%	1/10W
R914	1-216-821-11	METAL CHIP 1K 5%	1/10W
R915	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R916	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R917	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R918	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R919	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R920	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R921	1-216-819-11	METAL CHIP 680 5%	1/10W
R922	1-216-819-11	METAL CHIP 680 5%	1/10W
R923	1-216-819-11	METAL CHIP 680 5%	1/10W
R924	1-216-821-11	METAL CHIP 1K 5%	1/10W
R925	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R926	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R927	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R928	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R929	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R930	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R931	1-216-815-11	METAL CHIP 330 5%	1/10W
R932	1-216-813-11	METAL CHIP 220 5%	1/10W
R933	1-216-815-11	METAL CHIP 330 5%	1/10W
R934	1-216-811-11	METAL CHIP 150 5%	1/10W
R935	1-216-815-11	METAL CHIP 330 5%	1/10W
R936	1-216-811-11	METAL CHIP 150 5%	1/10W
R937	1-216-815-11	METAL CHIP 330 5%	1/10W
R938	1-216-813-11	METAL CHIP 220 5%	1/10W
R939	1-216-815-11	METAL CHIP 330 5%	1/10W
R940	1-216-811-11	METAL CHIP 150 5%	1/10W
R941	1-216-815-11	METAL CHIP 330 5%	1/10W
R942	1-216-811-11	METAL CHIP 150 5%	1/10W
R943	1-216-815-11	METAL CHIP 330 5%	1/10W

Ref. No.	Part No.	Description	Remark
R944	1-216-813-11	METAL CHIP 220 5%	1/10W
R945	1-216-815-11	METAL CHIP 330 5%	1/10W
R946	1-216-811-11	METAL CHIP 150 5%	1/10W
R947	1-216-815-11	METAL CHIP 330 5%	1/10W
R948	1-216-811-11	METAL CHIP 150 5%	1/10W
R949	1-216-815-11	METAL CHIP 330 5%	1/10W
R950	1-216-813-11	METAL CHIP 220 5%	1/10W
R951	1-216-815-11	METAL CHIP 330 5%	1/10W
R952	1-216-811-11	METAL CHIP 150 5%	1/10W
R953	1-216-815-11	METAL CHIP 330 5%	1/10W
R954	1-216-811-11	METAL CHIP 150 5%	1/10W
R955	1-216-815-11	METAL CHIP 330 5%	1/10W
R956	1-216-815-11	METAL CHIP 330 5%	1/10W
R957	1-216-815-11	METAL CHIP 330 5%	1/10W
R958	1-216-815-11	METAL CHIP 330 5%	1/10W
R959	1-216-819-11	METAL CHIP 680 5%	1/10W
R962	1-216-809-11	METAL CHIP 100 5%	1/10W
R963	1-216-809-11	METAL CHIP 100 5%	1/10W
R964	1-216-809-11	METAL CHIP 100 5%	1/10W
R967	1-216-821-11	METAL CHIP 1K 5%	1/10W
R971	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R971	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R972	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R972	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R973	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R973	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R974	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R974	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R975	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R975	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R976	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R976	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R977	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R977	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R978	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R978	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R979	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R979	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)
R980	1-216-809-11	METAL CHIP 100 5%	1/10W (F5710)
R980	1-216-813-11	METAL CHIP 220 5%	1/10W (F5710X)

DISPLAY **MAIN**

Ref. No.	Part No.	Description			Remark
R981	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R981	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R982	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R982	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R983	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R983	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R984	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R984	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R985	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R985	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R986	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R986	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R987	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R987	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R988	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R988	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R989	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R989	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R990	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R990	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R991	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R991	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R992	1-216-809-11	METAL CHIP	100	5%	1/10W (F5710)
R992	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710X)
R993	1-216-815-11	METAL CHIP	330	5%	1/10W
R996	1-216-817-11	METAL CHIP	470	5%	1/10W
R997	1-216-815-11	METAL CHIP	330	5%	1/10W
		< SWITCH >			
S901	1-786-763-11	SWITCH, TACTILE (OFF)			
S902	1-786-763-11	SWITCH, TACTILE (SOURCE)			
S903	1-786-763-11	SWITCH, TACTILE (6)			
S904	1-786-763-11	SWITCH, TACTILE (5/BBE MP)			
S905	1-786-763-11	SWITCH, TACTILE (4)			
S906	1-786-763-11	SWITCH, TACTILE (3)			
S907	1-786-763-11	SWITCH, TACTILE (2/SHUF)			
S908	1-786-763-11	SWITCH, TACTILE (1/REP)			
S909	1-786-763-11	SWITCH, TACTILE (DSPL)			
S910	1-786-763-11	SWITCH, TACTILE (MODE)			
S911	1-786-763-11	SWITCH, TACTILE (COLOR)			
S912	1-786-763-11	SWITCH, TACTILE (ENTER)			
S913	1-786-763-11	SWITCH, TACTILE (GP/PRESET –)			
S914	1-786-763-11	SWITCH, TACTILE (MENU)			
S915	1-786-763-11	SWITCH, TACTILE (I◄◄ SEEK – ◄◄)			
S916	1-786-763-11	SWITCH, TACTILE (EQ7)			
S917	1-786-763-11	SWITCH, TACTILE (DSO)			
S918	1-786-763-11	SWITCH, TACTILE (GP/PRESET +)			
S919	1-786-763-11	SWITCH, TACTILE (LIST)			
S920	1-786-763-11	SWITCH, TACTILE (►►I SEEK + ►►)			
		< ROTARY ENCODER >			
S921	1-478-474-11	ENCODER, ROTARY (PUSH DIAL SOUND/VOLUME)			
**********					
	A-1087-918-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD) (F5710)			
	A-1087-924-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD) (F5710X)			
		**********			
	7-621-284-40	SCREW +P 2.6X10			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C101	1-126-964-11	ELECT	10uF	20%	50V
C106	1-126-965-11	ELECT	22uF	20%	50V
C107	1-126-964-11	ELECT	10uF	20%	50V
C109	1-104-665-11	ELECT	100uF	20%	25V
C111	1-126-964-11	ELECT	10uF	20%	50V
C113	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C402	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C403	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C404	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C405	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C406	1-136-153-00	FILM	0.012uF	5%	50V
C407	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C408	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C409	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C410	1-126-960-11	ELECT	1uF	20%	50V
C411	1-126-960-11	ELECT	1uF	20%	50V
C412	1-126-960-11	ELECT	1uF	20%	50V
C413	1-126-960-11	ELECT	1uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-136-153-00	FILM	0.012uF	5%	50V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-126-947-11	ELECT	47uF	20%	35V
C418	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C419	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C422	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-126-964-11	ELECT	10uF	20%	50V
C425	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C426	1-126-964-11	ELECT	10uF	20%	50V
C428	1-126-964-11	ELECT	10uF	20%	50V
C430	1-126-947-11	ELECT	47uF	20%	35V
C433	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C435	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C436	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C437	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C438	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C439	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C440	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C441	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C442	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C443	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C444	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C445	1-126-964-11	ELECT	10uF	20%	50V
C446	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C447	1-126-961-11	ELECT	2.2uF	20%	50V
C454	1-126-960-11	ELECT	1uF	20%	50V
C612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C613	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C614	1-115-156-11	CERAMIC CHIP	1uF		10V
C618	1-126-947-11	ELECT	47uF	20%	35V
C619	1-126-964-11	ELECT	10uF	20%	50V
C620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C701	1-104-665-11	ELECT	100uF	20%	25V
C704	1-104-665-11	ELECT	100uF	20%	25V
C706	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C707	1-104-665-11	ELECT	100uF	20%	25V
C709	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C801	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C802	1-126-947-11	ELECT	47uF	20%	35V
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C809	1-104-665-11	ELECT	100uF	20%	25V
C810	1-126-916-11	ELECT	1000uF	20%	6.3V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C813	1-104-665-11	ELECT	100uF	20%	25V
C814	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C816	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C817	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C818	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C821	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C822	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C825	1-104-665-11	ELECT	100uF	20%	25V
C906	1-126-963-11	ELECT	4.7uF	20%	50V
C908	1-126-960-11	ELECT	1uF	20%	50V
C909	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C915	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C919	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C920	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C921	1-126-940-11	ELECT	330uF	20%	25V
C922	1-131-868-81	ELECT	3300uF	20%	16V
C990	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C991	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C992	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C993	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C994	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN401	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	
CN751	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P	
CNJ900	1-580-907-41	PLUG, CONNECTOR (BUS CONTROL IN)	
CNP802	1-569-907-11	SOCKET, CONNECTOR 12P	
CNP901	1-774-701-21	PIN, CONNECTOR 16P	
		< JACK >	
CNP900	1-764-270-21	JACK (REMOTE IN)	
		< DIODE >	
D301	8-719-978-33	DIODE DTZ-TT11-6.8B	
D400	8-719-080-34	DIODE SDS511	
D600	8-719-069-55	DIODE UDZSTE-175.6B	
D701	8-719-080-34	DIODE SDS511	
D702	8-719-080-34	DIODE SDS511	
D801	8-719-080-34	DIODE SDS511	
D803	8-719-977-12	DIODE DTZ6.8B	
D804	8-719-058-24	DIODE RB501V-40TE-17	
D805	8-719-058-24	DIODE RB501V-40TE-17	
D806	8-719-058-24	DIODE RB501V-40TE-17	
D808	8-719-977-12	DIODE DTZ6.8B	
D810	8-719-080-34	DIODE SDS511	
D811	8-719-109-97	DIODE RD6.8ESB2	
D812	8-719-109-97	DIODE RD6.8ESB2	
D813	8-719-109-97	DIODE RD6.8ESB2	
D814	8-719-109-97	DIODE RD6.8ESB2	
D815	8-719-109-97	DIODE RD6.8ESB2	
D816	8-719-109-97	DIODE RD6.8ESB2	
D817	8-719-109-97	DIODE RD6.8ESB2	
D818	8-719-060-48	DIODE RB751V-40TE-17	
D821	8-719-109-97	DIODE RD6.8ESB2	
D822	8-719-109-97	DIODE RD6.8ESB2	
D823	8-719-083-66	DIODE UDZSTE-1718B	
D824	8-719-083-66	DIODE UDZSTE-1718B	
D857	8-719-058-24	DIODE RB501V-40TE-17	
D858	8-719-058-24	DIODE RB501V-40TE-17	
D901	8-719-083-66	DIODE UDZSTE-1718B	
D902	8-719-053-18	DIODE 1SR154-400TE-25	
D903	8-719-053-18	DIODE 1SR154-400TE-25	
D904	6-500-522-01	DIODE 10EDB40-TA1B2	
D905	6-500-522-01	DIODE 10EDB40-TA1B2	
D906	6-500-522-01	DIODE 10EDB40-TA1B2	
D907	6-500-522-01	DIODE 10EDB40-TA1B2	
D908	6-500-522-01	DIODE 10EDB40-TA1B2	
D909	6-500-522-01	DIODE 10EDB40-TA1B2	
D910	8-719-058-24	DIODE RB501V-40TE-17	
D911	8-719-017-95	DIODE MA8180-TX	
D912	8-719-083-66	DIODE UDZSTE-1718B	
D913	8-719-017-95	DIODE MA8180-TX	
D914	8-719-977-12	DIODE DTZ6.8B	
D915	8-719-069-56	DIODE UDZSTE-176.2B	
D916	6-500-522-01	DIODE 10EDB40-TA1B2	
D917	6-500-522-01	DIODE 10EDB40-TA1B2	
D918	8-719-080-34	DIODE SDS511	
D919	8-719-049-38	DIODE 1N5404TU	
D921	6-500-522-01	DIODE 10EDB40-TA1B2	

MAIN

Ref. No.	Part No.	Description	Remark
D922	6-500-522-01	DIODE 10EDB40-TA1B2	
		< FERRITE BEAD >	
FB701	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB703	1-414-760-21	FERRITE, EMI (SMD) (1608)	
		< IC >	
IC100	6-705-359-02	IC TDA8588AJ/N2/R1	
IC401	6-703-303-01	IC TDA7416	
IC801	6-805-005-01	IC MB90487APF-G-126-BNDE1	
IC802	8-759-659-13	IC PST3428UL	
IC803	6-705-373-01	IC MM3123DPLE	
IC900	6-703-884-01	IC BA8271F-E2	
		< JUMPER RESISTOR >	
JR5	1-216-864-11	SHORT CHIP 0	
JR6	1-216-864-11	SHORT CHIP 0	
JR10	1-414-227-11	INDUCTOR, FERRITE BEAD	
		< COIL >	
L400	1-414-398-11	INDUCTOR 10uH	
L700	1-410-509-11	INDUCTOR 10uH	
L701	1-410-501-11	INDUCTOR 2.2uH	
L703	1-216-296-91	SHORT CHIP 0	
L900	1-456-617-11	COIL, CHOKE	
		< JACK >	
PJ401	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/AUDIO OUT)	
PJ601	1-793-598-11	JACK (ANTENNA)	
		< TRANSISTOR >	
Q301	6-550-683-01	FET RJK005N03-T146	
Q400	8-729-038-71	TRANSISTOR KRC107S	
Q401	8-729-038-55	TRANSISTOR KRA103S	
Q402	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P	
Q403	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P	
Q404	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P	
Q405	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P	
Q406	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P	
Q601	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q800	8-729-038-55	TRANSISTOR KRA103S	
Q801	8-729-038-71	TRANSISTOR KRC107S	
Q802	8-729-038-55	TRANSISTOR KRA103S	
Q900	8-729-034-51	TRANSISTOR KTC3875	
Q901	8-729-034-51	TRANSISTOR KTC3875	
Q902	8-729-038-67	TRANSISTOR KRC102S	
Q903	8-729-055-96	TRANSISTOR SRC1203SF	
Q904	8-729-055-92	TRANSISTOR SRA2203SF	
Q905	8-729-055-92	TRANSISTOR SRA2203SF	
Q912	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R101	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R302	1-216-809-11	METAL CHIP 100 5% 1/10W	
R400	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R401	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R402	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R403	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R404	1-216-809-11	METAL CHIP 100 5% 1/10W	
R405	1-216-809-11	METAL CHIP 100 5% 1/10W	
R406	1-216-809-11	METAL CHIP 100 5% 1/10W	
R407	1-216-809-11	METAL CHIP 100 5% 1/10W	
R408	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R409	1-216-809-11	METAL CHIP 100 5% 1/10W	
R410	1-216-809-11	METAL CHIP 100 5% 1/10W	
R411	1-216-809-11	METAL CHIP 100 5% 1/10W	
R412	1-216-809-11	METAL CHIP 100 5% 1/10W	
R413	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R414	1-216-809-11	METAL CHIP 100 5% 1/10W	
R415	1-216-809-11	METAL CHIP 100 5% 1/10W	
R416	1-216-809-11	METAL CHIP 100 5% 1/10W	
R417	1-216-809-11	METAL CHIP 100 5% 1/10W	
R418	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R419	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R420	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R421	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R423	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R424	1-216-805-11	METAL CHIP 47 5% 1/10W	
R425	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R426	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R427	1-216-809-11	METAL CHIP 100 5% 1/10W	
R428	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R429	1-247-807-31	CARBON 100 5% 1/4W	
R430	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R431	1-247-807-31	CARBON 100 5% 1/4W	
R432	1-216-809-11	METAL CHIP 100 5% 1/10W	
R437	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R447	1-216-811-11	METAL CHIP 150 5% 1/10W	
R448	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R451	1-414-760-21	FERRITE, EMI (SMD) (1608)	
R468	1-216-864-11	SHORT CHIP 0	
R603	1-247-807-31	CARBON 100 5% 1/4W	
R604	1-247-807-31	CARBON 100 5% 1/4W	
R606	1-216-809-11	METAL CHIP 100 5% 1/10W	
R607	1-216-809-11	METAL CHIP 100 5% 1/10W	
R608	1-216-809-11	METAL CHIP 100 5% 1/10W	
R614	1-469-144-21	FERRITE, EMI (SMD) (2012)	
R615	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R705	1-216-809-11	METAL CHIP 100 5% 1/10W	
R708	1-216-864-11	SHORT CHIP 0	
R722	1-216-809-11	METAL CHIP 100 5% 1/10W	
R800	1-216-841-11	METAL CHIP 47K 5% 1/10W (F5710X)	
R801	1-216-809-11	METAL CHIP 100 5% 1/10W	
R804	1-216-809-11	METAL CHIP 100 5% 1/10W	
R805	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R806	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R808	1-216-845-11	METAL CHIP 100K 5% 1/10W (F5710X)	
R808	1-216-864-11	SHORT CHIP 0 (F5710)	
R809	1-216-845-11	METAL CHIP 100K 5% 1/10W (F5710X)	
R813	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R814	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R815	1-249-435-11	CARBON 33K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R816	1-216-821-11	METAL CHIP	1K	5%	1/10W
R817	1-216-821-11	METAL CHIP	1K	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
R821	1-216-817-11	METAL CHIP	470	5%	1/10W
R822	1-216-817-11	METAL CHIP	470	5%	1/10W
R823	1-216-817-11	METAL CHIP	470	5%	1/10W
R825	1-216-849-11	METAL CHIP	220K	5%	1/10W
R826	1-216-843-11	METAL CHIP	68K	5%	1/10W
R827	1-216-809-11	METAL CHIP	100	5%	1/10W
R828	1-216-809-11	METAL CHIP	100	5%	1/10W
R830	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R833	1-249-417-11	CARBON	1K	5%	1/4W
R834	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R844	1-216-845-11	METAL CHIP	100K	5%	1/10W
R846	1-216-845-11	METAL CHIP	100K	5%	1/10W
R848	1-216-845-11	METAL CHIP	100K	5%	1/10W
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R852	1-216-864-11	SHORT CHIP	0		
R853	1-216-864-11	SHORT CHIP	0		
R855	1-216-821-11	METAL CHIP	1K	5%	1/10W
R856	1-216-841-11	METAL CHIP	47K	5%	1/10W
R857	1-216-809-11	METAL CHIP	100	5%	1/10W
R858	1-216-809-11	METAL CHIP	100	5%	1/10W
R859	1-216-809-11	METAL CHIP	100	5%	1/10W
R860	1-216-845-11	METAL CHIP	100K	5%	1/10W
R861	1-216-809-11	METAL CHIP	100	5%	1/10W
R862	1-216-809-11	METAL CHIP	100	5%	1/10W
R863	1-216-845-11	METAL CHIP	100K	5%	1/10W
R864	1-216-833-11	METAL CHIP	10K	5%	1/10W
R865	1-216-833-11	METAL CHIP	10K	5%	1/10W
R866	1-216-845-11	METAL CHIP	100K	5%	1/10W
R870	1-249-407-11	CARBON	150	5%	1/4W
R871	1-249-407-11	CARBON	150	5%	1/4W
R872	1-216-029-00	RES-CHIP	150	5%	1/10W
R873	1-216-845-11	METAL CHIP	100K	5%	1/10W
R900	1-216-849-11	METAL CHIP	220K	5%	1/10W
R901	1-216-845-11	METAL CHIP	100K	5%	1/10W
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R905	1-216-833-11	METAL CHIP	10K	5%	1/10W
R907	1-216-833-11	METAL CHIP	10K	5%	1/10W
R908	1-216-809-11	METAL CHIP	100	5%	1/10W
R909	1-216-809-11	METAL CHIP	100	5%	1/10W
R910	1-216-809-11	METAL CHIP	100	5%	1/10W
R911	1-216-864-11	SHORT CHIP	0		
R912	1-249-417-11	CARBON	1K	5%	1/4W
R913	1-216-821-11	METAL CHIP	1K	5%	1/10W
R914	1-469-144-21	FERRITE, EMI (SMD) (2012)			
R915	1-469-144-21	FERRITE, EMI (SMD) (2012)			
R917	1-249-431-11	CARBON	15K	5%	1/4W
R919	1-216-809-11	METAL CHIP	100	5%	1/10W
R920	1-216-821-11	METAL CHIP	1K	5%	1/10W
R921	1-216-809-11	METAL CHIP	100	5%	1/10W
R925	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R926	1-216-849-11	METAL CHIP	220K	5%	1/10W
R927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R929	1-216-821-11	METAL CHIP	1K	5%	1/10W
R930	1-216-821-11	METAL CHIP	1K	5%	1/10W
R931	1-216-073-91	RES-CHIP	10K	5%	1/10W
R932	1-216-073-91	RES-CHIP	10K	5%	1/10W
R935	1-216-841-11	METAL CHIP	47K	5%	1/10W
R936	1-216-864-11	SHORT CHIP	0		
R938	1-216-073-91	RES-CHIP	10K	5%	1/10W
R939	1-216-073-91	RES-CHIP	10K	5%	1/10W
R940	1-216-845-11	METAL CHIP	100K	5%	1/10W
R941	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< SWITCH >			
S800	1-571-850-51	SWITCH, SLIDE (FREQUENCY SELECT)			(F5710X)
S801	1-786-458-11	SWITCH, PUSH (1 KEY) (NOSE DET)			
S802	1-762-638-21	SWITCH, TACTILE (RESET)			
		< THERMISTOR (POSITIVE) >			
TH900	1-801-792-21	THERMISTOR, POSITIVE			
		< TUNER >			
TUX601	A-3220-961-A	TUNER UNIT (TUX-032)			
		< VIBRATOR >			
X800	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)			
X801	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
		RELAY BOARD			
		**********			
	1-792-173-11	CABLE, FLAT (FFC) 12P (CNP903)			
		< CAPACITOR >			
C974	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C975	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CNP902	1-817-159-11	SOCKET, CONNECTOR 14P			
		< DIODE >			
LED930	6-500-895-01	LED CL-270UB2-X-TS (DISC IN) (F5710)			
LED930	8-719-082-38	LED CL-270SR-C-TS (DISC IN) (F5710X)			
LED935	6-500-476-01	LED SML310BA1TT86 (⏏) (F5710)			
LED935	8-719-053-09	LED SML-310VTT86 (⏏) (F5710X)			
		< RESISTOR >			
R966	1-216-813-11	METAL CHIP	220	5%	1/10W (F5710)
R966	1-216-817-11	METAL CHIP	470	5%	1/10W (F5710X)
		< SWITCH >			
S931	1-786-763-11	SWITCH, TACTILE (⏏)			
**********					

SENSOR **SERVO**

Ref. No.	Part No.	Description			Remark
		SENSOR BOARD			
		**********			
		< SWITCH >			
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)			
**********					
	A-1075-784-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C4	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C5	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C7	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C9	1-104-609-11	ELECT CHIP	100uF	20%	4V
C10	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C13	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C16	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C17	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C18	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C19	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C20	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C21	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C22	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C23	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C24	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C28	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C29	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C31	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C32	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C33	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C34	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C35	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C36	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C37	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C38	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C39	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C40	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C41	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C42	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C43	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C45	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C47	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C48	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C49	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C51	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C52	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C53	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C57	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C58	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C59	1-112-195-11	ELECT	47uF	20%	4V
C60	1-112-195-11	ELECT	47uF	20%	4V
C61	1-126-208-21	ELECT CHIP	47uF	20%	4V
C62	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C64	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C65	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C67	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C72	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C80	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C101	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C103	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C106	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
		< CONNECTOR >			
CN1	1-691-380-21	CONNECTOR, FFC/FPC 16P			
CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P			
		< JUMPER RESISTOR >			
FB2	1-216-864-11	SHORT CHIP	0		
FB3	1-216-864-11	SHORT CHIP	0		
FB4	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC1	6-707-327-01	IC BA5968FP-E2			
IC2	6-707-328-01	IC TC94A60MFG-301			
IC3	6-805-086-01	IC MB90487APFV-G-131-BNDE1			
IC6	6-705-364-01	IC R1114N151D-TR-FA			
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q2	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q3	8-729-928-90	TRANSISTOR DTC114EE			
		< RESISTOR >			
R1	1-218-941-81	RES-CHIP	100	5%	1/16W
R2	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W
R3	1-208-912-11	METAL CHIP	11K	0.5%	1/16W
R4	1-218-969-11	RES-CHIP	22K	5%	1/16W
R5	1-218-969-11	RES-CHIP	22K	5%	1/16W
R6	1-218-929-11	RES-CHIP	10	5%	1/16W
R7	1-218-929-11	RES-CHIP	10	5%	1/16W
R8	1-218-967-11	RES-CHIP	15K	5%	1/16W
R9	1-218-967-11	RES-CHIP	15K	5%	1/16W
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W
R12	1-218-977-11	RES-CHIP	100K	5%	1/16W
R13	1-218-969-11	RES-CHIP	22K	5%	1/16W
R16	1-218-967-11	RES-CHIP	15K	5%	1/16W
R17	1-218-973-11	RES-CHIP	47K	5%	1/16W
R19	1-218-967-11	RES-CHIP	15K	5%	1/16W
R21	1-218-973-11	RES-CHIP	47K	5%	1/16W
R22	1-218-990-11	SHORT CHIP	0		
R23	1-218-979-11	RES-CHIP	150K	5%	1/16W
R24	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R25	1-218-990-11	SHORT CHIP	0		
R26	1-218-941-81	RES-CHIP	100	5%	1/16W
R28	1-218-947-11	RES-CHIP	330	5%	1/16W
R40	1-218-941-81	RES-CHIP	100	5%	1/16W
R41	1-218-977-11	RES-CHIP	100K	5%	1/16W
R42	1-218-977-11	RES-CHIP	100K	5%	1/16W
R43	1-218-941-81	RES-CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R44	1-218-941-81	RES-CHIP	100	5%	1/16W
R45	1-218-989-11	RES-CHIP	1M	5%	1/16W
R46	1-218-947-11	RES-CHIP	330	5%	1/16W
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W
R48	1-218-941-81	RES-CHIP	100	5%	1/16W
R49	1-218-941-81	RES-CHIP	100	5%	1/16W
R50	1-218-941-81	RES-CHIP	100	5%	1/16W
R51	1-218-941-81	RES-CHIP	100	5%	1/16W
R52	1-218-945-11	RES-CHIP	220	5%	1/16W
R53	1-218-941-81	RES-CHIP	100	5%	1/16W
R54	1-218-941-81	RES-CHIP	100	5%	1/16W
R55	1-218-977-11	RES-CHIP	100K	5%	1/16W
R56	1-218-941-81	RES-CHIP	100	5%	1/16W
R57	1-218-941-81	RES-CHIP	100	5%	1/16W
R58	1-218-941-81	RES-CHIP	100	5%	1/16W
R59	1-218-977-11	RES-CHIP	100K	5%	1/16W
R60	1-218-977-11	RES-CHIP	100K	5%	1/16W
R61	1-218-977-11	RES-CHIP	100K	5%	1/16W
R62	1-218-977-11	RES-CHIP	100K	5%	1/16W
R63	1-218-977-11	RES-CHIP	100K	5%	1/16W
R64	1-218-977-11	RES-CHIP	100K	5%	1/16W
R65	1-218-941-81	RES-CHIP	100	5%	1/16W
R66	1-218-941-81	RES-CHIP	100	5%	1/16W
R67	1-218-941-81	RES-CHIP	100	5%	1/16W
R68	1-218-941-81	RES-CHIP	100	5%	1/16W
R69	1-218-941-81	RES-CHIP	100	5%	1/16W
R70	1-218-941-81	RES-CHIP	100	5%	1/16W
R71	1-220-804-11	RES-CHIP	2.2M	5%	1/16W
R72	1-218-941-81	RES-CHIP	100	5%	1/16W
R73	1-218-973-11	RES-CHIP	47K	5%	1/16W
R74	1-218-941-81	RES-CHIP	100	5%	1/16W
R77	1-218-941-81	RES-CHIP	100	5%	1/16W
R78	1-218-941-81	RES-CHIP	100	5%	1/16W
R80	1-218-941-81	RES-CHIP	100	5%	1/16W
R81	1-218-973-11	RES-CHIP	47K	5%	1/16W
R82	1-218-973-11	RES-CHIP	47K	5%	1/16W
R83	1-218-973-11	RES-CHIP	47K	5%	1/16W
R84	1-218-953-11	RES-CHIP	1K	5%	1/16W
R86	1-218-969-11	RES-CHIP	22K	5%	1/16W
R90	1-218-941-81	RES-CHIP	100	5%	1/16W
R91	1-218-941-81	RES-CHIP	100	5%	1/16W
R100	1-220-200-81	RES-CHIP	30K	5%	1/16W
R101	1-218-971-11	RES-CHIP	33K	5%	1/16W
R112	1-218-990-11	SHORT CHIP	0		
R113	1-218-990-11	SHORT CHIP	0		
R116	1-218-977-11	RES-CHIP	100K	5%	1/16W
R117	1-218-977-11	RES-CHIP	100K	5%	1/16W
R118	1-218-977-11	RES-CHIP	100K	5%	1/16W
R119	1-218-977-11	RES-CHIP	100K	5%	1/16W
R120	1-218-990-11	SHORT CHIP	0		
R121	1-218-990-11	SHORT CHIP	0		
R122	1-218-990-11	SHORT CHIP	0		
R123	1-218-990-11	SHORT CHIP	0		
R125	1-218-941-81	RES-CHIP	100	5%	1/16W
R126	1-218-941-81	RES-CHIP	100	5%	1/16W
R127	1-218-941-81	RES-CHIP	100	5%	1/16W
R128	1-218-941-81	RES-CHIP	100	5%	1/16W
R131	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R132	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
		< SWITCH >			
SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
		< VIBRATOR >			
X1	1-813-371-21	VIBRATOR, CERAMIC (12MHz)			
X2	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			

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		MISCELLANEOUS
		**********
11	1-776-207-72	CORD (WITH CONNECTOR) (POWER)
12	1-790-375-12	CORD (WITH CONNECTOR) (SUB OUT (MONO))
⚠153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)
154	A-1075-787-A	CHASSIS (OP) SUB ASSY (including M901)
F900	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)
M903	A-1075-792-A	MOTOR ASSY, LE (LOADING)
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)

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		ACCESSORIES
		**********
	1-479-077-31	REMOTE COMMANDER (RM-X153) (F5710)
	1-479-077-71	REMOTE COMMANDER (RM-X157) (F5710X)
	2-515-319-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (F5710)
	2-515-319-21	MANUAL, INSTRUCTION (ENGLISH,SPANISH, TRADITIONAL CHINESE) (F5710X)
	2-515-332-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (F5710)
	2-515-332-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,TRADITIONAL CHINESE) (F5710X)
	2-548-729-01	LID, BATTERY CASE (for RM-X153/X157)
	X-3378-390-3	CASE (PANEL) ASSY (for FRONT PANEL)

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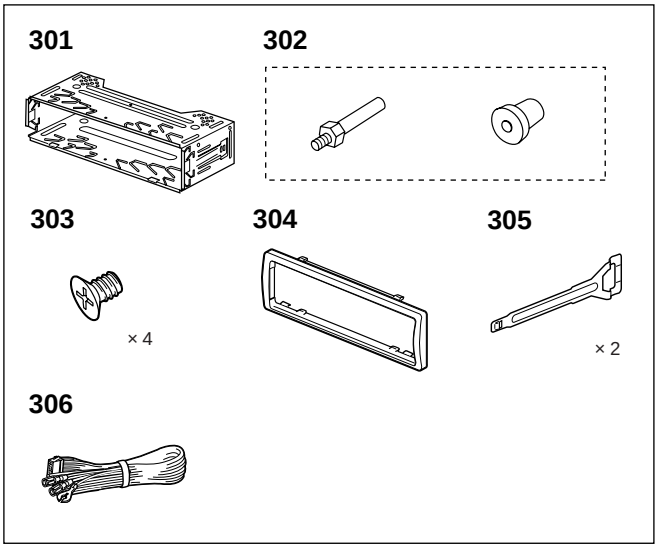
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
301	X-3382-647-1	FRAME ASSY, FITTING	
302	X-3366-405-1	SCREW ASSY (EXP), FITTING (F5710X)	
303	3-934-325-01	SCREW (+K 5X8 TP)	
304	3-260-658-02	COLLAR	
305	3-246-471-01	KEY (FRAME)	
306	1-776-207-72	CORD (WITH CONNECTOR) (POWER)	



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004. 12	New